

/DYD 3 %OXH DQG 7> 5HYLVLRQ \$SU
BB

7KH SURGXFW FRQWDLQV QR VXEVDQFHV ZKLFK DW WKHLU JLYHQ FRQFHQW
\$SSHDUDQGH 3K\VLFDQ 8WDLW WHQHG 2GRI3OHD
IUHH OLTXLGV /LTXLG

*+6 /DEHO HOHPHQWV LQFOXGLQJ SL

+D]DUG VWDWHPHQWV
1RW FODVVLILHG

2WKHU LQIRI

8QNQRZQ DFXW RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH RUDO WR
RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH GHUPDO
RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDODW
RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDODW
RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDODW

&20326,7,21 ,1)250\$7,21 21 ,1*5

6XEVDQFH

1RW DSSOLFDEOH

0L[W>

&KHPLFDO Q	&\$6 1R	:HLJKW	+D]DUGRXV 0 ,QIRUPDWLRQ UHJLVWU\ QXP UHJLVWU\	'DWH +0,5\$ ILOHG D GDWH H[HPSWLRQ J LI DSSOLFDEOH
7KLUG 3DUW\) 73	RUPXODWLRQ			
7KLUG 3DUW\) 73	RUPXODWLRQ			

7KH H[DFW SHUFHQW DJH FRQFHQWUDWLRQ RI FRPSRVLWLRQ KDV EHHQ ZLWKKH

,567 \$,' 0(\$68

'HVFULSWLRQ RI ILUV'

,QKDOI 5HPRYH WR IUHVK DLU
(\H FRQWDFW 5LQVH WKRURXJKO\ ZLWK SOHQW\ RI ZDWHU IRU DW C
&RQVXOW D SK\VLFLDQ
6NLQ FR :DVK VNLQ ZLWK VRDS DQG ZDWHU
BB

/DYD 3 %OXH DQG 7> 5HYLVLRQ \$SU
 BBBB...BBBBB

(\H FRQWDFW 6SHFLILF WHVW GDWD IRU WKH VXEVWDQFH RU PL[WXUH LV
 6NLQ FRQWDFW 6SHFLILF WHVW GDWD IRU WKH VXEVWDQFH RU PL[WXUH LV
 ,QJHVWLRQ 6SHFLILF WHVW GDWD IRU WKH VXEVWDQFH RU PL[WXUH LV

6\PSWRPV UHODWHG WR WKH SK\VLFDQ FKHPLFDQ

6\PSWR 1R LQIRUPDWLRQ DYDLODEOH

1XPHULFDQ PHDVXUH

\$FXWH WR

8QNQRZQ DFXW RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ
 RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH RUDO WR
 RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH GHUPDO
 RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDODW
 RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDODW
 RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDODW

3URGXFW ,QIRUPDWLRQ

&RPSRQHGW ,QII

&KHPLFDQ QD	2UDO /'	'HUPDO /'	,QKDODWLRQ /
7KLUG 3DUW\)RUPXODWLRQ J 7BJ	5DW	! J NJ	5DEELW
7KLUG 3DUW\)RUPXODWLRQ J 7BJ	5DW		

'HOD\HG DQG LPPHGLDWH HIIHFWV DV ZHOO DV FWHUP HISE

6NLQ FRUURVLR 1R LQIRUPDWLRQ DYDLODEOH

6HULRXV H\H GDPDJH 1R LQIRUPDWLRQ DYDLODEOH

5HVSLUDWRU\ RU VNI 1R LQIRUPDWLRQ DYDLODEOH

*HUP FHOQ PXW 1R LQIRUPDWLRQ DYDLODEOH

&DUFLQRJI 1R LQIRUPDWLRQ DYDLODEOH

7KH WDEOH EHORZ LQGLFDWHV ZKHWKHU HDFK DJHQF\ KDV OLVWHG DQ\ LQJUHGL

&KHPLFDQ Q	\$&*,+	,\$5&	173	26+\$
7KLUG 3DUW\)RUPXODWLRQ 73		*URXS		

,\$5& ,QWHUQDWLRQDO \$JHQF\ IRU 5HVHDFK RQ &DQFHU
 *URXS 1RW &ODVVLILDEOH DV WR &DUFLQRJHQLFLW\ LQ +XPDQV

5HSURGXFWLY 1R LQIRUPDWLRQ DYDLODEOH

672\ VLQJOH H\ 1R LQIRUPDWLRQ DYDLODEOH

BBBB...BBBBB

Safety Data Sheet

Printing date 06/06/2024 **acc. to OSHA**

HCS Reviewed on 06/06/2024

1 Identification

- **Product identifier**
- **Trade name:** SPF 6352.8-DL blue Fresh Calmwild mint & Lavander
- **Relevant identified uses of the substance or mixture and uses advised against**
Currently no such applications are identified.
- **Application of the substance / the mixture** Pigmented highlighter ink
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SHANGHAI DOKUMENTAL INK Co. Ltd.
No.18-3, Maojia Road
Luodian Town, Baoshan District
Shanghai 201908 , P.R. China
Tel.: 86-21-66864551 / 66864542
- **Information department:**
Ms. Cindy Song
Email: cindy.song@dokumental.cn
- **Emergency telephone number:**
Ms. Cindy Song
Tel.: mobile +86-13764206454
Email: cindy.song@dokumental.cn

Safety Data Sheet *mint &*

2 Hazard(s) identification

• **Classification of the substance or mixture**



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.



GHS07

Sensitization - Skin 1 H317 May cause an allergic skin reaction.
 Aquatic Acute 3 H402 Harmful to aquatic life.
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

• **Label elements**

• **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

• **Hazard pictograms**



GHS07



GHS08

• **Signal word** *Warning*

• **Hazard-determining components of labeling:**

*ethanediol
linalyl acetate*

• **Hazard statements**

H317 May cause an allergic skin reaction.
 H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.
 H412 Harmful to aquatic life with long lasting effects.

• **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves.
 P302+P352 If on skin: Wash with plenty of water.
 P314 Get medical advice/attention if you feel unwell.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P321 Specific treatment (see on this label).
 P363 Wash contaminated clothing before reuse.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.



HEALTH	1
FIRE	1
REACTIVITY	0

Not applicable.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**

Health = 0 Fire
 = 1
 Reactivity =

- 0 · **HMIS-ratings (scale 0 - 4)**

Health = 1 Fire = 1
 Reactivity = 0

- **Other hazards** · **Results of PBT**
 and vPvB assessment · **PBT:** Not
 applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

Mixture of the following substances, containing non-hazardous substances and colouring agents. · **Description:** Mixture of the substances listed below with nonhazardous additions.

This product is a Trade Secret

4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** If symptoms persist consult
 doctor. · **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** During heating or in case of fire poisonous gases are produced. • **Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective clothing.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water. • **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities** • **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
*The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.*
- **Additional information:** *The lists that were valid during the creation were used as basis.*
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
*Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.*
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**
*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.*
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several

substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber, NBR

- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**

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HCS Reviewed on 06/06/2024

Trade name: SPF 6352.8-DL blue Fresh Calmwild mint & Lavander

9 Physical and chemical properties

· Information on basic physical and chemical properties · General Information · Appearance:

Form: Fluid
Color: According to product specification

· **Odor:** Product specific
 · **Odor threshold:** Not determined.

· **Important information on protection of environment, and** -

· **pH-value at 20 °C (68 °F):** 7

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 100 °C (212 °F)

· **Flash point:** 111 °C (231.8 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto igniting:** 400 °C (752 °F)

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not selfigniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

Lower: 2.6 Vol %
Upper: 53 Vol %

· **Vapor pressure at 20 °C (68 °F):** 23 hPa (17.251 mm Hg)

· **Vapor pressure at 50 °C (122 °F):** ~0.015 hPa (~0.011 mm Hg)

· **Density at 20 °C (68 °F):** 1.1 g/cm³ (9.2 lbs/gal)

· **Relative density** Not determined. · **Vapor density** Not determined. · **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water: Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic at 20 °C (68 °F): 6 mPas
Kinematic: Not determined.

· **Solvent content:**

Organic solvents: Not determined

Water: Not determined

Solids content: Not determined

Safety Data Sheet

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· **Other information**

The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

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HCS Reviewed on 06/06/2024

Trade name: SPF 6352.8-DL blue Fresh Calmwild mint & Lavander**10 Stability and reactivity**

- **Reactivity** No further relevant information available.

- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects** · **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available. · **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available. · **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms · **Results of PBT and vPvB assessment** · **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

Safety Data Sheet

Printing date 06/06/2024 acc. to OSHA

HCS Reviewed on 06/06/2024

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations. · **Recommended cleansing agent:** Water, if necessary with cleansing agents.

Trade name: SPF 6352.8-DL blue Fresh Calmwild mint & Lavander

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** not applicable

- **UN proper shipping name**
- **DOT, ADR, IMDG, IATA** not applicable

- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** not applicable

- **Packing group**
- **DOT, ADR, IMDG, IATA** not applicable

- **Environmental hazards:** Not applicable.

- **Special precautions for user** Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

- **UN "Model Regulation":** not applicable

Safety Data Sheet

Printing date 06/06/2024 **acc. to OSHA**

HCS Reviewed on 06/06/2024

Trade name: SPF 6352.8-DL blue Fresh Calmwild mint & Lavander

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **DSL/NDSL (Canada) All ingredients are listed**

- **Cancerogenity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Signal word** Warning

- **Hazard-determining components of labeling:**

ethanediol linalyl
acetate

Safety Data Sheet

Printing date 06/06/2024 **acc. to OSHA****HCS** Reviewed on 06/06/2024**Trade name: SPF 6352.8-DL blue Fresh Calmwild mint & Lavander****· Technical instructions (air):**

Class	Share in %
NK	25-<50

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Contact:**· Date of preparation / last revision**06/06/2024 · **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical

Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB:

very Persistent and very Bioaccumulative NIOSH:

National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Sensitization - Skin 1: Skin sensitisation - Category 1 Specific Target Organ Toxicity - Repeated Exposure 2:

Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3 Aquatic

Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

- *** Data compared to the previous version altered.**

- Product identifier
- Trade name: SPF 6372.8 violet Floral Calm Lavander & Chamomile
- Relevant identified uses of the

Manufacturer/Supplier:
SHANGHAI DOKUMENTAL INK Co. Ltd.
No.18-3, Maojia Road
Luodian Town, Baoshan District
Shanghai 201908 , P.R. China
Tel.: 86-21-66864551 / 66864542

- Information department:
Ms. Cindy Song
Email: cindy.song@do

Target Organ Toxicity - Repeated Exposure H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.

GHS07

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

H402 H

- Hazard pictograms

m (GHS).

GHS07 GHS08

- Signal word Warning
- Hazard-determining components of labeling:
ethanediol
linalyl acetate
- Hazard statements
H317 May cause an allergic skin reaction.
H373 May cause d n

regulations.

ordance with local/regional/national/international

(Contd. on page 2)

US

- Suitable extinguishing agents: Use fire fighting media
- Extinguishing media

No further relevant information available.

discuss the need for immediate medical attention and special treatment needed

- After eye contact: Rinse opened eyes
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
In case of unconsciousness place patient stably in side position for transportation.
Call for a doctor.

- Additional information about design of technical equipment

Boiling point
Melting point
Melting range:

- Change in condition

- pH-value at 20 °C (68 °F):

- Specific end use(s) No further relevant information available.

- See section 10 for information on classification of hazard and
information on special storage conditions: None.

3811-13-5 polydine-2-thio 1-oxide, sodium salt

81-44-2 pers-Carborylene

140-11-4 benzyl acetate

112-82-7 methyl acetate

101-51-1 ethanolol

- Dangerous components:

1

-

Not determined.

Product specific

According to product specification

additions.

- VLB: Not applicable.
- PBT: Not applicable.
- Results of PBT and VLB assessment
- Other hazards

REACTIVITY 0

1

1

Reactivity = 0

Fire = 1

Health = 1

- HMI2-ratings (scale 0 - 4)

The selection of the suitable gloves does not only depend

- Material of gloves

higher wearability for the better acceptance of the users are recommended.

The kind of the glove material by abrasion is expected, thinned gloves with

scale 0 - 4)

- Ecotoxicity effects
- Mobility in soil No further relevant information available.
- Bioaccumulative potential No further relevant information available.
- Behavior in environmental systems:
 slightly No further relevant information available.

- Conditions for
 Keep respiratory protective device available.
- Information about protection against explosions and fires:
 Prevent formation of aerosols.
 Ensure good ventilation/exhaustion at the workplace.
 safe handling

101-21-1

- PAC-1:
- Protective Action Criteria for Chemicals
 See Section 13 for disposal information.
 See Section 8 for information on personal protection equipment.
 See Section 7 for information on safe handling.
 to other sections

Safety Data Sheet
acc. to OSHA HCS

Trade name: SPF 6372.8 violet Floral Calm Lavander & Chamomile

(Contd. of page 3)

Due to missing tests no recommendati

ding of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

Material of gloves

The selection of the suitable gloves does not only dep

lated in advance and has therefore

to be checked prior to the application.

Nitrile rubber, NBR

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and ha

s: Get medical advice/attention.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/internation-

According to product specification

Product specific

Not determined.

Important information on protection of health and environment, and on safety.

-

6

pH-value at 20 °C (68 °F):

7

Change in condition

Melting point/Melting range:

Boiling

Hazard pictograms

Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation

ises dangereuses par route (European Agreement Concerning the International

Product is not selfigniting.

Not determined.

Explosion limits:

Lower:

2,6 Vol %

Upper: GHS08

53 Vol %

Vapor pressure at 20 °C (68 °F):

23 hPa (17.251 mm Hg)

Vapor pressure at 50 °C (122 °F):

~0.015 hPa (~0.011 mm Hg)

Hazard-determining components of labeling:

Density at 20 °C (68

ethanediol

linalyl acetate

Hazard statements

H317 May cause an allergic skin reaction.

H373 May cause d

Sensitization: Skin 1: Skin sensitisation

Specific Target Organ Toxicity Repeated Exposure 2: Specific targ

Aquatic Acute 3: Hazardous to the aquatic environment

Aquatic Chronic 3: Hazardous to the aquatic environment

amic at 20 °C (68 °F):

6 mPas

Kinematic:

Not determined.

Solvent content:

Organic solvents:

Not determined

Water:

Not determined

(Contd. on page 5)

US

Trade name: SPF 6372.8 violet Floral Calm Lavander & Chamomile

(Contd. of page 4)

Solids content:

Not determined
The physical

activity

- Reactivity No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- Possibility of hazardous reactions N

IMDG, IATA

- Transport hazard class(es) tion products known.

· DOT, ADR, ADN, IMDG, IATA

- Class not applicable

· Packing group

- DOT hazard class(es): Get medical advice/attention. not applicable
- DOT hazard class(es): (see on this label), not applicable

· Acute toxicity: Wash contaminated clothing before reuse. Not applicable.

· Environmental hazards: Disposal of contents: Dispose of contents in accordance with local/regional/national/international

· LD50 values: Disposal of contents: Dispose of contents in accordance with local/regional/national/international

· Special precautions for user 107-21-1 ethanediol Not applicable.

· Transport LD50 5,840 mg/kg (rat)

· Dermal LD50 9,530 mg/kg (rabbit)

ding to internally approved calculation methods for

preparations:
Irritant

- Carcinogenic categories
- IARC (International Agency for Research on Cancer)
140-11-4 benzyl acetate
- NTP (National Toxicology Program)
None of the ingredients

3

ability No further relevant information available.

- Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxicological effects

Sensitization - Skin 1: Skin sensitisation
Specific Target Organ Toxicity Repeated Exposure 2: Specific target
Aquatic Acute 3: Hazardous to the aquatic environment
Aquatic Chronic 3: Hazardous to the aquatic environment

er, water course or

- Harmful to aquatic organisms
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

US

- Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for males:

All components have the v•

- TSCA (Toxic Substances Control Act):
101-51-1 ethanolol
- Section 313 (Specific toxic chemical listings):
None of the ingredient is listed.
- Section 302 (extremely hazardous substances):
- GHS

1 mixture

- Transport•
- Special precautions for user Not applicable.
- Environmental hazards: Not applicable.
- DOT, ADR, IMDG, IATA Not applicable
- Packing group
- Class Not applicable
- DOT, ADR, ADR, IMDG, IATA
- Transport hazard class(es)

IMDG, IATA

- Recommendation: Disposal must be made as
- Uncleaned packaging:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Recommendation:
removal methods

Trade name: SPF 6372.8 violet Floral Calm Lavander & Chamomile

(Contd. of page 6)

· Hazard pictograms

GHS07 GHS08

· Sig

ed exposure. Route of exposure: Oral.

H412 Harmful to aquatic life with long lasting effects.
· Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothin
P273
P280

s: Get medical advice/attention.
P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/internation s

sment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product feature.

ises dangereuses par route (European Agreement Concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation

an Chemical Society)
NFPA: National Fire Protection Association (USA)
HMS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulat'

g

Sensitization - Skin 1: Skin sensitisation
Specific Target Organ Toxicity Repeated Exposure 2: Specific targ
Aquatic Acute 3: Hazardous to the aquatic environment
Aquatic Chronic 3: Hazardous to the aquatic environment

/DYD 3 %OXH DQG 7> 5HYLVLRQ \$SU
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(\H FRQWDFW 6SHFLILF WHVW GDWD IRU WKH VXEVWDQFH RU PL[WXUH LV
 6NLQ FRQWDFW 6SHFLILF WHVW GDWD IRU WKH VXEVWDQFH RU PL[WXUH LV
 ,QJHVWLRQ 6SHFLILF WHVW GDWD IRU WKH VXEVWDQFH RU PL[WXUH LV

6\PSWRPV UHODWHG WR WKH SK\VLFDQ FKHPLFDQ

6\PSWR 1R LQIRUPDWLRQ DYDLODEOH

1XPHULFDQ PHDVXUH

\$FXWH WR

8QNQRZQ DFXW RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ
 RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH RUDO WR
 RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH GHUPDO
 RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDODW
 RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDODW
 RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDODW

3URGXFW ,QIRUPDWLRQ

&R SRQHQRW ,QIR

&KHPLFDQ QD	2UDO /	'HUPDO /	,QKDODWLRQ /
7KLUG 3DUW\)RUPXODWLRQ J 78J 5DW	!	J NJ	5DEELW
7KLUG 3DUW\)RUPXODWLRQ J 78J 5DW			

'HOD\HG DQG LPPHGLDWH HIIHFWV DV ZHOO DV FWHUP H[SE

6NLQ FRUURVLR 1R LQIRUPDWLRQ DYDLODEOH
 6HULRXV H\H GDPDJH 1R LQIRUPDWLRQ DYDLODEOH
 5HVSLUDWRU\ RU VNI 1R LQIRUPDWLRQ DYDLODEOH
 *HUP FHOO PXW 1R LQIRUPDWLRQ DYDLODEOH
 &DUFLQRJI 1R LQIRUPDWLRQ DYDLODEOH
 7KH WDEOH EHORZ LQGLFDWHV ZKHWKHU HDFK DJHQF\ KDV OLVWHG DQ\ LQJUHGL

&KHPLFDQ Q	\$&*,+	, \$5&	173	26+\$
7KLUG 3DUW\)RUPXODWLRQ 73		*URXS		

, \$5& ,QWHUQDWLRQDO \$JHQF\ IRU 5HVHDFK RQ &DQFHU
 *URXS 1RW &ODVVLILDEOH DV WR &DUFLQRJHQLFLW\ LQ +XPDQV

5HSURGXFWLY 1R LQIRUPDWLRQ DYDLODEOH
 672\ VLQJOH H[1R LQIRUPDWLRQ DYDLODEOH
 672\ UHSHDWHG † 1R LQIRUPDWLRQ DYDLODEOH
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&RQWG RI SDJH

3URWHFWLRQ RI KDQGV
 7KH JORYH PDWHULDO KDV WR EH LPSHUPHDEOH DQG UHVLVWDQW WR WKH SURGXFW WKH
 SUHSDUDWLRQ
 'XH WR PLVVLQJ WHVW QR UHFRPPHQGDWLRQ WR WKH JORYH PDWHULDO FDQ EH JLYHQ IR
 SUHSDUDWLRQ WKH FKHPDFDO PL[WXUH
 6HOHFWLRQ RI WKH JORYH PDWHULDO RQ FRQVLGHUDWLRQ RI WKH SHQHWUDWLRQ WLPHV
 GHJUDGDWLRQ
 'I RQO\ D VKRUW WHUP ORDGLQJ RI WKH JORYH PDWHULDO E\ VSODVKHV LV H[SHFWHG WU
 KLJKHU ZHDUDELOLW\ IRU WKH EHWWHU DFFHSWDQFH RI WKH XVHUV DUH UHFRPPHQGHG
 0DWHULDO RI JORYHV
 7KH VHOHFWLRQ RI WKH VXLWDEOH JORYHV GRHV QRW RQO\ GHSHQG RQ WKH PDWHULDO E
 RI TXDOLW\ DQG YDULHV IURP PDQXIDFWXUHU WR PDQXIDFWXUHU \$V WKH SURGXFW LV D S
 VXEWDQFH WKH UHVLVWDQFH RI WKH JORYH PDWHULDO FDQ QRW EH FDOFXODWHG LQ D
 WR EH FKHFNHG SULRU WR WKH DSSOLFDFWLRQ
 1LWULOH UXEEHU 1%5
 3HQHWUDWLRQ WLPH RI JORYH PDWHULDO
 7KH H[DFW EUDN WURXJK WLPH KDV WR EH IRXQG RXW E\ WKH PDQXIDFWXUHU RI WKH SUR
 WR EH REVHUYHG
 (\H SURWHFWLRQOHV UHFRPPHQGHG GXULQJ UHILOOLQJ

3K\VLFDQ DQG FKHPDFDO SURSHUWLHV

.QIRUPDWLRQ RQ EDVLF SK\VLFDQ DQG FKHPDFDO SURSHUWLHV *HQHUDO ,QIRUPDWLRQ \$SSHUHQFH)RUP)OXLG &RORU \$FFRUGLQJ WR SURGXFW VSHFLILFDWLRQ 2GRU 3URGXFW VSHFLILF 2GRU WKUHVKROG 1RW GHWHUPLQH
Â ,PSRUWDQW LQIRUPDWLRQ RQ SURWHFWLRQ RI KHDWK HQYLURQPHQW DQG RQ VDIHW\
Â S+ YDOXH DW f& f)
Â &KDQJH LQ FRQGLWLRQ 0HOWLQJ SRLQW 0HOWLQJ UDQJH 8QGHWHUPLQH %RLOLQJ SRLQW %RLOLQJ UDQJH f& f)
Â)ODVK SRLQW 1RW DSSOLFDEOH
Â)ODPPDELOLW\ 1RW DSSOLFDEOH
Â 'HFRPSRVLWLRQ WHPSHUDWXUH 1RW GHWHUPLQH
Â ,JQLWLRQ WHPSHUDWXUH 3URGXFW LV QRW VHOILJQLWLQJ
Â 'DQJHU RI H[SORVLRQ 1RW GHWHUPLQH
Â ([SORVLRQ OLPLWV /RZHU 9RO 8SSHU 9RO
Â 9DSRU SUHVXUH DW f& f) K3D PP +J Â 9DSRU SUHVXUH DW f& f) K3D PP +J
Â 'HQVLW\ DW f& f) J FPa OEV JDO Â 5HODWLYH GHQVLW\ 1RW GHWHUPLQH Â 9DSRU GHQVLW\ 1RW GHWHUPLQH Â (YDSRUDWLRQ UDWH 1RW GHWHUPLQH
Â 6ROXELOLW\ LQ 0LVFLELOLW\ ZLWK :DWHU)XOO\ PLVFLEOH
Â 3DUWLWLRQ FRHILFLHQW Q RFDQRO ZRWHG GHWHUPLQH
Â 9LVFRVLW\ \QDPLF DW f& f) P3DV .LQHPDWLF 1RW GHWHUPLQH
Â 6ROYHQW FRQWHQW 2UJDQLF VROYHQWV 1RW GHWHUPLQH :DWHU 1RW GHWHUPLQH
6ROLGV FRQWHQW 1RW GHWHUPLQH

&RQWG RQ SDJH

&RQWG RI SDJH

7UDQVSRUW LQIRUPDWLRQ

81 1XPEHU '27 \$'5 ,0'* ,,\$7\$	QRW DSSOLFDEOH
81 SURSHU VKLSSLQJ QDPH '27 \$'5 ,0'* ,,\$7\$	QRW DSSOLFDEOH
7UDQVSRUW KD]DUG FODVV HV '27 \$'5 \$'1 ,0'* ,,\$7\$ &ODVV	QRW DSSOLFDEOH
3DFNLQJ JURXS '27 \$'5 ,0'* ,,\$7\$	QRW DSSOLFDEOH
Ã (QYLURQPHQWDO KD]DUGV	1RW DSSOLFDEOH
Ã 6SHFLDO SUHFDXWLRQV IRU XVHU	1RW DSSOLFDEOH
Ã 7UDQVSRUW LQ EXON DFFRUGLQJ WR \$QQH[, , RI 0\$532/ DQG WKH ,%& &RGH	1RW DSSOLFDEOH
Ã 81 0RGHO 5HJXODWLRQ	QRW DSSOLFDEOH

5HJXODWRU\ LQIRUPDWLRQ

6DIHW\ KHDOWK DQG HQYLURQPHQWDO UHJXODWLRQV OHJLVODWLRQ VSHFLILF IRU WKH VXE
 6DUD

A 6HFWLRQ H[WUHPHO\ KD]DUGRXV VXEVWDQFHV 1RQH RI WKH LQJUHGLHQW LV OLVWHG
A 6HFWLRQ 6SHFLILF WR[LF FKHPDFDO OLVWLQJV 1RQH RI WKH LQJUHGLHQWV LV OLVWHG
Ã 76&\$ 7R[LF 6XEVWDQFHV &RQWURO \$FW \$OO FRPSRQHQWV KDYH WKH YDOXH \$&7.9(A +D]DUGRXV \$LU 3ROOXWDQWV 1RQH RI WKH LQJUHGLHQWV LV OLVWHG 3URSRVLWLRQ
A &KHPLFDOV NQRZQ WR FDXVH FDQFHU 1RQH RI WKH LQJUHGLHQWV LV OLVWHG
A &KHPLFDOV NQRZQ WR FDXVH UHSURGXFWLYH WR[LFLW\ IRU IHPDOHV 1RQH RI WKH LQJUHGLHQWV LV OLVWHG
Ã &KHPLFDOV NQRZQ WR FDXVH UHSURGXFWLYH WR[LFLW\ IRU PDOHV 1RQH RI WKH LQJUHGLHQWV LV OLVWHG
A &KHPLFDOV NQRZQ WR FDXVH GHYHORSPHQWDO WR[LFLW\ 1RQH RI WKH LQJUHGLHQWV LV OLVWHG '6/ '1'6/ &DQDQDO LQJUHGLHQWV DUH OLVWHG &DQFHURJHQLW\ FDWHJRULHV
A (3\$ (QYLURQPHQWDO 3URWHFWLRQ \$JHQF\ 1RQH RI WKH LQJUHGLHQWV LV OLVWHG
Ã 7/9 7KUHVKROG /LPLW 9DOXH 1RQH RI WKH LQJUHGLHQWV LV OLVWHG
A 0\$. *HUPDQ 0D[LPXP :RUNSODFH &RQFHQWUDWLRQ 1RQH RI WKH LQJUHGLHQWV LV OLVWHG
Ã 1,26+ &D 1DWLRQDO ,QVWLWXWH IRU 2FFXSDWLRQDO 6DIHW\ DQG +HDOWK 1RQH RI WKH LQJUHGLHQWV LV OLVWHG
*+6 ODEHO HOHPHQWV 7KH SURGXFW LV FODVVLILHG DQG ODEHOHG DFFRUGLQJ WR WKH *OREDOO\ +DUPRQL]HG 6\V +D]DUG SLFWRQDQV 6LJQDO ZRURGH +D]DUG VWDWHPHQWV 3UHFDXWLRQDU\ VWDWHPHQWV 3 'LVS RVH RI FRQWHQWV FRQWDLQHU LQ DFFRUGDQFH ZLWK ORFDO UHJLRQDO QDWLRQDO UHJXODWLRQV 1DWLRQDO UHJXODWLRQV 7HFKQLFDO LQVWUXFWLRQV DLU &ODVV 6KDUH LQ 1.

- Details of the supplier of the safet
- Application of the substance \ the mixture Pigmented highlighter ink
Currently no such applications are identified.
Identified uses of the substance or mixture and uses advised against

Trade name: SPF 6320.8 orange Citrus Energy Orange & Honey

(Contd. of page 2)



specifications.
mixture. These data are no binding product
ily derived from the components data

- Kinematic:
 - Dynamic at 50 °C (98 °F):
 - Not a
a base
 - Viscosity:
 - Not determined.
 - Partition coefficient (n-octanol/water):
 - Fully miscible.
 - Water:
 - Not determined.
 - Solubility in \ Miscibility with:
 - Not determined.
 - Evaporation rate:
 - Not determined.
-)

- Explos
- Danger of explosion:
 - Not determined.
- Ignition temperature:
 - Product is not self-igniting.
- Decomposition temperature:
 - Not determined.
- Auto igniting:
 - 400 °C (752 °F)
- Flammability (solid, gaseous):
 - Not applicable.
(>300 °C °F)

- Odor threshold:
 - Not determined.
- Odor:
 - Product specific
- Color:
 - According to product specification
- Form:
 - Fluid
- Appearance:
 - General information
- Information on basic physical and chemical properties

Safety Data Sheet
acc. to OSHA HCS

Trade name: SPF 6320.8 orange Citrus Energy Orange & Honey

(Contd. of page 4)

- Sensitization: No sensitizing

listed.

- NTP (National Toxicology Program)
None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

I No further relevant information available.

- Mobility in soil No further relevant information available.
- Ecotoxicological effects:
Remark: Harmful to fish
- Additional ecological information:
- General notes:
Water hazard class 2 (Self-as

ults of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

- Waste treatment methods
- Recommendations

cleansing agent: Water, if necessary with cleansing agents.

- UN-Number
- DOT, ADR, IMDG, IATA not applicable
- UN proper shipping name
- DOT, ADR, IMDG, IATA not applicable
- Transport hazard class

MARPOL73/78 and the IBC Code

Not applicable.

- UN "Model Regulation": not applicable

Trade name: SPF 6320.8 orange Citrus Energy Orange & Honey

(Cont'd. of page 5)

listings):

107-21-1 ethanediol

· TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.

· Hazardous Air Pollutants
107-21-1 ethanediol
· Proposition 65

· Chemicals known to cause cancer:
None of the ingr

opmental toxicity:

107-21-1 ethanediol

· DSL/NDSL (Canada) All ingredients are listed

· Cancerogenity categories

· EPA (Environmental Protection Agency)
None of the ingredients is listed.

· TLV (Threshold Limit Value)

107-21-1 ethanediol

labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Warning

· Hazard-determining components of labeling:
ethanediol

· Hazard statements
H373 May cau

pors/spray.

P273 Avoid release to the environment.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National reg

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establi

- Repeated Exposure 5: Specific target organ toxicity (repeated expo

PBT: Persistent, Bioaccumula

HMI2: Hazardous Materials Identification System (USA)

IFPA: International Fire Protection Association (USA)

Abstracts Service (division of the American Chemical Society)

IMDG: International Maritime Code for

Carriage of Dangerous Goods by Road)

and related air transport international des marchandises dangereuses par route (European Agreement Concerning the International

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5HSURGXFWLYH WR[LFLW\	&DWHJRU\
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\$SSHDUDQ#ORZ 3K\VLFDQ 8WDFNLWHQHG 2GRI&LV
QR IUHH OLTXLGV 6ROLG

*+6 /DEHO HOHPHQWV LQFOXGLQJ SL

:DUQLC

+D]DUG VWDWHPHQWV
0D\ FDVXH DQ DOOHUJLF VNLQ UHDFWLRQ
6XVSHFWHG RI GDPDJLQJ IHUWLWLW\ RU WKH XQERUQ FKLOG

3UHFDXWLRQDU\ 6WDWHPHQWV 3UHYPHQWLRQ
2EWDLQ VSHFLDO LQVWUXFWLRQV EHIRUH XVH
'R QRW KDQGOH XQWLO DOO VDIHW\ SUHFDXWLRQV KDYH EHHQ UHMG DQG XQGHU
:H DU SURWHFWLYH JORYHV SURWHFWLYH FORWKLQJ H\H SURWHFWLRQ IDFH SURW
\$YRLG EUHDWKLQJ GXVW IXPH JDV PLVW YDSRUV VSUD\
&RQWDPLQDWHG ZRUN FORWKLQJ PXVW QRW EH DOORZHG RXW RI WKH ZRUNSODFH
3UHFDXWLRQDU\ 6WDWHPHQWV 5HVSQRVH
,) H[SRVHG RU FRQFHUQHG *HW PHGLFDO DGylFH DWWHQWLRQ
6SHFLILF WUHDWPHQW VHH VXSSOHPHQWDO ILUVW DLG LQVWUXFWLRQV RQ WKLV
6NLQ
,) 21 6.,1 :DVK ZLWK SOHQW\ RI ZDWHU DQG VRDS
,I VNLQ LUULWDWLRQ RU UDVK RFFXUV *HW PHGLFDO DGylFH DWWHQWLRQ
:DVK FRQWDPLQDWHG FORWKLQJ EHIRUH UHXVH

3UHFDXWLRQDU\ 6WDWHPHQWV 6WRUDJH
6WRUH ORFNHG XS

3UHFDXWLRQDU\ 6WDWHPHQWV 'LVSRVDO
'LVSRVH RI FRQWHQWV FRQWDLQHU WR DQ DSSURYHG ZDVWH GLVSRVDO SODQW

2WKHU LQIRI
0D\ EH KDUPIXO LI VZDOORZHG

8QNQRZQ DFXW RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ
RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH RUDO V
RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH GHUPD
RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDO
RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDO
RI WKH PL[WXUH FRQVLVWV RI LQJUHGLHQW V RI XQNQRZQ DFXWH LQKDO

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&20326,7,21 ,1)250\$7,21 21 ,1*5

6XEVDQFH

1RW DSSOLFDEOH

0LW)

&KHPLFDO Q	&\$6 1R	:HLJKW	+DJDUGRXV 0 ,QIRUPDWLRQ UHJLVWU\ QXP UHJLVWU\	'DWH +0,5\$ ILOHG D GDWH H[HPSWLRQ J LI DSSOLFDEOH
7KLUG 3DUW\) 73	RUPXODWLRQ			
7KLUG 3DUW\) 73	RUPXODWLRQ			
7KLUG 3DUW\) 73	RUPXODWLRQ			
7KLUG 3DUW\) 73	RUPXODWLRQ			
7KLUG 3DUW\) 73	RUPXODWLRQ			
7KLUG 3DUW\) 73	RUPXODWLRQ			

7KH H[DFW SHUFHQWDJH FRQFHQWUDWLRQ RI FRPSRVLWLRQ KDV EHHQ ZLWKKH

),567 \$,' 0(\$68

'HVFULSWLRQ RI ILUV'

*HQHUDO 6KRZ WKLV VDIHW\ GDWD VKHHW WR WKH GRFWRU LQ DWWH
,QKDOI 5HPRYH WR IUHVK DLU

(\H FRQWDFW 5LQVH WKRURXJKO\ ZLWK SOHQW\ RI ZDWHU IRU DW C
&RQVXOW D SK\VLFLDQ

6NLQ FRQWDFW :DVK ZLWK VRDS DQG ZDWHU 0D\ FDXVH DQ DOOHUJLF VNL
RU DOOHUJLF UHDFWLRQV VHH D SK\VLFLDQ

,QJHV &OHDQ PRXWK ZLWK ZDWHU DQG GULQN DIWHUZDUGV SOHQ

0RVW LPSRUWDQW V\PSWRPV DQG HIIHFV

6\PSWR ,WFKLQJ 5DVKHV +LYHV

,QGLFDWLRQ RI DQ\ LPPHGLDWH PHGLFDO DWWH

1RWH WR SK 0D\ FDXVH VHQLWLWLDWLRQ LQ VXVFHWSWLEOH SHUVRQV 7U

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Third Party Formulation (TP # 1847013)	STEL: 50 ppm vapor fraction STEL: 10 mg/m ³ inhalable particulate matter, aerosol only TWA: 25 ppm vapor fraction	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³		
Third Party Formulation (TP # 1847013)	TWA: 10 mg/m ³ mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction		
Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Third Party Formulation (TP # 1847013)	Ceiling: 100 mg/m ³	TWA: 10 mg/m ³ STEL: 20 mg/m ³ Ceiling: 100 mg/m ³ Ceiling: 50 ppm	TWA: 25 ppm STEL: 50 ppm STEL: 10 mg/m ³	Ceiling: 50 ppm Ceiling: 127 mg/m ³
Third Party Formulation (TP # 1847013)	TWA: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 3 mg/m ³		TWA: 10 mg/m ³

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

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/\$9\$1'(5
BBB

3+<6,&\$ / \$1' &+(0,&\$ / 3523

.QIRUPDWLRQ RQ EDVLF SK\VLFDQ I
3K\VLFDQ 3UH 0RLVWHQH G 7RZH0HWWH QR IUHH OLTXLGV 6ROLG
\$SSHDI <HOORZ
2GR &LWUXV
&RO 1R LQIRUPDWLRQ DYDLODEOH
2GRU 7KUF 1RW DSSOLFDEOH

<u>3URSH</u>	<u>9DOXI</u>	<u>5HPDUNV 0F</u>
S+	1R GDWD DYDLODEOH	
0HOWLQJ IUHI	1R GDWD DYDLODEOH	1RQH NQRZQ
%RLOLQJ SRLQW	f& f)	
)ODVK 3	&)	
(YDSRUWL	1R GDWD DYDLODEOH	1RQH NQRZQ
)ODPPDELOLW\	1R GDWD DYDLODEOH	1RQH NQRZQ
)ODPPDELOLW\ /LPLW LQ \$LU		
8SSHU IODPPDELOLW\	1R GDWD DYDLODEOH	
/RZHU IODPPDELOLW\	1R GDWD DYDLODEOH	
9DSRU SUF	1R GDWD DYDLODEOH	1RQH NQRZQ
9DSRU GF	1R GDWD DYDLODEOH	1RQH NQRZQ
5HODWLYH	1R GDWD DYDLODEOH	
:DWHU 6RC	&ORWK QRW VROXEOH	
6ROXELOI	1R GDWD DYDLODEOH	1RQH NQRZQ
3DUWLWLRQ F RFDWQR	1R GDWD DYDLODEOH	
\$XWRLJQLWLRQ	1R GDWD DYDLODEOH	1RQH NQRZQ
'HFRPSRVLWLRQ W	1R GDWD DYDLODEOH	1RQH NQRZQ
.LQHPDWLF Y	1R GDWD DYDLODEOH	1RQH NQRZQ
'\QDPLF YLV	1R GDWD DYDLODEOH	1RQH NQRZQ

<u>2WKHU ,QIRL</u>	
([SORVLYH SU	1R LQIRUPDWLRQ DYDLODEOH
2[LGL]LQJ SU	1R LQIRUPDWLRQ DYDLODEOH
6RIWHQLQ.	1R LQIRUPDWLRQ DYDLODEOH
0ROHFXODU	1R LQIRUPDWLRQ DYDLODEOH
92& &RQWH	1R LQIRUPDWLRQ DYDLODEOH
/LTXLG 'H	1R LQIRUPDWLRQ DYDLODEOH
%XON 'H	1R LQIRUPDWLRQ DYDLODEOH
3DUWLFC	1R LQIRUPDWLRQ DYDLODEOH
3DUWLFOH 6L]H	1R LQIRUPDWLRQ DYDLODEOH

67\$%,/,7< \$1' 5(\$&

5HDFW	1R LQIRUPDWLRQ DYDLODEOH
&KHPLFDO V	6WDEOH XQGHU QRUPDO FRQGLWLRQV
3RVVLELOLW\ RI +D]DU	1RQH XQGHU QRUPDO SURFHVV LQJ
+D]DUGRXV 3RO\F	+D]DUGRXV SRO\PHUL]DWLRQ GRHV QRW RFFXU
&RQGLWLRQV	1RQH NQRZQ EDVHG RQ LQIRUPDWLRQ VXSSOLHG
,QFRPSDWLEOH	1RQH NQRZQ EDVHG RQ LQIRUPDWLRQ VXSSOLHG

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72; , & 2/2* , & \$ / , 1) 250\$

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 &DUFLQRJI 1R LQIRUPDWLRQ DYDLODEOH
 7KH WDEOH EHORZ LQGLFDWHV ZKHWKHU HDFK DJHQF\ KDV OLVWHG DQ\ LQJUHGL

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7KLUG 3DUW\)RUPXODWLRQ 73		*URXS		

, \$5& ,QWHUQDWLRQDO \$JHQF\ IRU 5HVHDFK RQ &DQFHU
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5HSURGXFWLY 1R LQIRUPDWLRQ DYDLODEOH
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 672\ UHSHDWHG † 1R LQIRUPDWLRQ DYDLODEOH
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Safety Data Sheet

Printing date 06/06/2024 acc. to OSHA

HCS Reviewed on 06/06/2024

1 Identification

- **Product identifier**
- **Trade name:** SPF 6310.8 lt. green Spicy Joy Star anise & Green apple
- **Relevant identified uses of the substance or mixture and uses advised against**
Currently no such applications are identified.
- **Application of the substance / the mixture** Pigmented highlighter ink
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SHANGHAI DOKUMENTAL INK Co. Ltd.
No.18-3, Maojia Road
Luodian Town, Baoshan District
Shanghai 201908 , P.R. China
Tel.: 86-21-66864551 / 66864542
- **Information department:**
Ms. Cindy Song
Email: cindy.song@dokumental.cn
- **Emergency telephone number:**
Ms. Cindy Song
Tel.: mobile +86-13764206454
Email: cindy.song@dokumental.cn

2 Hazard(s) identification

- **Classification of the substance or mixture**

Specific Target Organ Toxicity - Repeated Exposure 2H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.

Aquatic Acute 3

H402 Harmful to aquatic life.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**
- **Signal word** Warning
- **Hazard-determining components of labeling:**
ethanediol
- **Hazard statements**
H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral. H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P273 Avoid release to the environment.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
 - **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity

=



0 • HMIS-

Safety Data SheetPrinting date 06/06/2024 **acc. to OSHA HCS** Reviewed on 06/06/2024**Trade name: SPF 6310.8 lt. green Spicy Joy Star anise & Green apple****ratings (scale 0 - 4)**

Health = 0

Fire = 1

Reactivity = 0

· **Other hazards**· **Results of PBT and vPvB****assessment** · **PBT:** Not applicable.· **vPvB:** Not applicable.

Safety Data SheetPrinting date 06/06/2024 **acc. to OSHA HCS** Reviewed on 06/06/2024**Trade name: SPF 6310.8 lt. green Spicy Joy Star anise & Green apple****3 Composition/information on ingredients****· Chemical characterization: Mixtures**

Mixture of the following substances, containing non-hazardous substances and colouring agents. · **Description:** Mixture of the substances listed below with nonhazardous additions.

This product is a Trade Secret

4 First-aid measures**· Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult

· Information for doctor:**· Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures**· Extinguishing media**

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced. · **Advice for firefighters**

- **Protective equipment:** Mount respiratory protective device.

Safety Data Sheet

Printing date 06/06/2024 **acc. to OSHA HCS** Reviewed on 06/06/2024Trade name: *SPF 6310.8 lt. green Spicy Joy Star anise & Green apple*

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective clothing.

- **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water. • **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal

information. • **Protective Action Criteria**

7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- **Information about protection against explosions and fires:**

Keep respiratory protective device available.

- **Conditions for safe storage, including any incompatibilities** • **Storage:**

- **Requirements to be met by storerooms and receptacles:** No special requirements.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** None.

- **Storage class:** 10

- **Specific end use(s)** No further relevant information available.

Safety Data Sheet

Printing date 06/06/2024 **acc. to OSHA HCS** Reviewed on 06/06/2024**Trade name: SPF 6310.8 lt. green Spicy Joy Star anise & Green apple**

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber, NBR

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Safety Data Sheet

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Trade name: *SPF 6310.8 lt. green Spicy Joy Star anise & Green apple*

9 Physical and chemical properties

· **Information on basic physical and chemical properties · General Information · Appearance:**

Form: Fluid
Color: According to product specification
 · **Odor:** Product specific
 · **Odor threshold:** Not determined.

· **Important information on protection of health and environment, and on safety.** -

· **pH-value at 20 °C (68 °F):** 7

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 100 °C (212 °F)

· **Flash point:** >199 °C (>390.2 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto igniting:** 400 °C (752 °F)

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not selfigniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

Lower: 2.6 Vol %
Upper: 11.3 Vol %

· **Vapor pressure at 20 °C (68 °F):** 23 hPa (17.251 mm Hg)

· **Vapor pressure at 50 °C (122 °F):** ~0.015 hPa (~0.011 mm Hg)

· **Density at 20 °C (68 °F):** 1.1 g/cm³ (9.2 lbs/gal)

· **Relative density** Not determined. · **Vapor density** Not determined. · **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water: Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic at 20 °C (68 °F): 9 mPas
Kinematic: Not determined.

· **Solvent content:**

Organic solvents: Not determined
Water: Not determined

Solids content: Not determined

· **Other information**

The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

10 Stability and reactivity

· **Reactivity** No further relevant information available. · **Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

· **Hazardous decomposition products:** No dangerous decomposition products known.

Safety Data Sheet

Printing date 06/06/2024 **acc. to OSHA HCS** Reviewed on 06/06/2024

Trade name: **SPF 6310.8 lt. green Spicy Joy Star anise & Green apple**

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms · **Results of PBT and vPvB assessment** · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

Safety Data SheetPrinting date 06/06/2024 **acc. to OSHA HCS** Reviewed on 06/06/2024**Trade name: SPF 6310.8 lt. green Spicy Joy Star anise & Green apple****14 Transport information**

· UN-Number	
· DOT, ADR, IMDG, IATA	not applicable
· UN proper shipping name	
· DOT, ADR, IMDG, IATA	not applicable
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	not applicable
· Packing group	
· DOT, ADR, IMDG, IATA	not applicable
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	not applicable

Safety Data Sheet

Printing date 06/06/2024 **acc. to OSHA HCS** Reviewed on 06/06/2024

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **DSL/NDSL (Canada)** All ingredients are listed

- **Cancerogenity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Signal word** Warning

- **Hazard-determining components of labeling:**

ethanediol

- **Hazard statements**

H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P273 Avoid release to the environment.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**

- **Technical instructions (air):**

Class	Share in %
NK	10-<25

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

Safety Data Sheet

Printing date 06/06/2024 **acc. to OSHA HCS** Reviewed on 06/06/2024**Trade name: SPF 6310.8 lt. green Spicy Joy Star anise & Green apple**

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Contact:**
- **Date of preparation / last revision 06/06/2024**

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical

Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

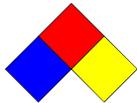
- *** Data compared to the previous version altered.**

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- 7UDGH QDPH ; / JROG
- 5HOHYDQW LGHQWLILHG XVHV RI WKH VXEVDQFH RU PL[WXUH DQG XVHV DGYLVLHG DJDLQV &XUUHQWO\ QR VXFK DSSOLFDWLRQV DUH LGHQWLILHG
- \$SSOLFDWLRQ RI WKH VXEVDQFH & (WKH 21/25X095.(5 ,1.
- 'HWDLOV RI WKH VXSSOLHU RI WKH VDIHW\ GDWD VKHHW
- 0DQXIDFWXUHU 6XSSOLHU
/LIHOLQHV //&
32 %R[
:HVWSRUW &7
7
- (PHUJHQF\ WHOHSKRQH QXPEHU
7-

+D]DUG V LGHQWLILFDWLRQ

- &ODVVLILFDWLRQ RI WKH VXEVDQFH RU PL[WXUH
7KH SURGXFW LV QRW FODVVLILHG DFFRUGLQJ WR WKH *OREDOO\ +DUPRQL]HG 6\ VWHP *+6
- /DEHO HOHPHQWV
- *+6 ODEHO HOHPHQWV
- +D]DUG SLFWRQEDFV
- 6LJQDO ZRQH
- +D]DUG VWDWHPHQWV
- &ODVVLILFDWLRQ V\ VWHP
- 1)3\$ UDWLQJV VFDOH



+HDOWK
)LUH
5HDFWLYLW\

- +0,6 UDWLQJV VFDOH



+HDOWK
)LUH
5HDFWLYLW\

- 2WKHU KD]DUGV
- 5HVXOWV RI 3%7 DQG Y3Y% DVVHVVPHQW
- 3%7 1RW DSSOLFDEOH
- Y3Y%1RW DSSOLFDEOH

&RPSRVLWLRQ LQIRUPDWLRQ RQ LQJUHGLHQWV

- &KHPLFDO FKDUDFWHUL]DWLRQ 0L[WXUHV
0L[WXUH RI WKH IROORZLQJ VXEVDQFHV FRQWDLQLQJ QRQ KD]DUGRXV VXEVDQFHV DQG
- 'HVFULSWLRQV RI WKH VXEVDQFHV OLVWHG EHORZ ZLWK QRQKD]DUGRXV DGGLWLRQV
- 'DQJHURXV FRPSODLQWV
- \$GGLWLRQDO LQIRUPDWLRQ ZRUGLQJ RI WKH OLVWHG KD]DUG SKUDVHV UHIHU WR VHFWRQ

)LUVW DLG PHDVXUHV

'HVFULSWLRQ RI ILUVW DLG PHDVXUHV
 *HQHUDO LQIRUPDWLRQ FLDO PHDVXUHV UHTXLUH
 \$IWHU LQKODD\ IUVK DLU FRQXOW GRFWRU LQ FDVH RI FRPSODLQWV
 \$IWHU VNLQ FRQWDOO\ WKH SURGXFW GRHV QRW LUULWDWH WKH VNLQ
 \$IWHU H\H FRQWDOO\ RSHQH H\H IRU VHYHUDO PLQXWHV XQGHU UXQQQLQJ ZDWHU
 \$IWHU VZDOORZLQJ SWRPV SHUVLVW FRQXOW GRFWRU
 ,QIRUPDWLRQ IRU GRFWRU
 0RVW LPSRUWDQW V\SWRPV DQG HIIHFV ERWK DFXWH DQG GHOD\HG
 1R IXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

&RQWG RI SDJH

0DWHULDO RI JORYHV
 7KH VHOHFWLRQ RI WKH VXLWDEOH JORYHV GRHV QRW RQO\ GHSHQG RQ WKH PDWHULDO E
 RI TXDOLW\ DQG YDULHV IURP PDQXIDFWXUHU WR PDQXIDFWXUHU \$V WKH SURGXFW LV D S
 VXEVDQFHV WKH UHVLVWDQFH RI WKH JORYH PDWHULDO FDQ QRW EH FDOFXODWHG LQ DO
 WR EH FKHFNHG SULRU WR WKH DSSOLFDFWLRQ
 1LWULOH UXEEHU 1%5
 3HQHWUDWLRQ WLPH RI JORYH PDWHULDO
 7KH H[DFW EUDN WURXJK WLPH KDV WR EH IRXQG RXW E\ WKH PDQXIDFWXUHU RI WKH SUR
 WR EH REVHUYHG
 (\H SURWHFWURRQOHV UHFRPPHQGHG GXULQJ UHILOOLQJ

3K\VLFDQ DQG FKHPDFDO SURSHUWLHV

,QIRUPDWLRQ RQ EDVLF SK\VLFDQ DQG FKHPDFDO SURSHUWLHV	
*HQHUDO ,QIRUPDWLRQ	
SSHDUDQFH	
)RUP)OXLG
&RORU	\$FFRUGLQJ WR SURGXFW VSHFLILFDWLRQ
2GRU	3URGXFW VSHFLILF
2GRU WKUHVKROG	1RW GHWHUPLQH
Ã ,PSRUWDQW LQIRUPDWLRQ RQ SURWHFWLRQ RI KHDWK	
HQYLURQPHQW DQG RQ VDIHW\	
Ã S+ YDOXH DW f& f)	
Ã &KDQJH LQ FRQGLWLRQ	
0HOWLQJ SRLQW 0HOWLQJ UDQJH	8QGHWHUPLQH
%RLOLQJ SRLQW %RLOLQJ UDQJH	f& f)
Ã)ODVK SRLQW	
1RW DSSOLFDEOH	
Ã)ODPPDELOLW\	
1RW DSSOLFDEOH	
Ã 'HFRPSRVLWLRQ WHPSHUDWXUH	
1RW GHWHUPLQH	
Ã ,JQLWLRQ WHPSHUDWXUH	
3URGXFW LV QRW VHOILJQLWLQJ	
Ã 'DQJHU RI H[SORVLRQ	
1RW GHWHUPLQH	
Ã ([SORVLRQ OLPLWV	
/RZHU	9RO
8SSHU	9RO
Ã 9DSRU SUHVXUH DW f& f)	
K3D PP +J	
Ã 9DSRU SUHVXUH DW f& f)	
K3D PP +J	
Ã 'HQVLW\ DW f& f)	
J FPa OEV JDO	
Ã 5HODWLYH GHQVLW\	
1RW GHWHUPLQH	
Ã 9DSRU GHQVLW\	
1RW GHWHUPLQH	
Ã (YDSRUDWLRQ UDWH	
1RW GHWHUPLQH	
Ã 6ROXELOLW\ LQ 0LVFLELOLW\ ZLWK	
:DWHU)XOO\ PLVFLEOH
Ã 3DUWLWLRQ FRHIILFLHQW Q RFDQRO ZRWHU	
1RW GHWHUPLQH	
Ã 9LVFRVLW\	
'QDPLF DW f& f)	P3DV
.LQHPDWLF	1RW GHWHUPLQH
Ã 6ROYHQW FRQWHQW	
2UJDQLF VROYHQWV	1RW GHWHUPLQH
:DWHU	1RW GHWHUPLQH
6ROLGV FRQWHQW	
1RW GHWHUPLQH	
Ã 2WKHU LQIRUPDWLRQ	
7KH SK\VLFDQ DQG FKHPDFDO SURSHUWLHV JLYHQ L	
6HFWLRQ DUH URXJK GDWD RQO\ ZKLFK DUH	
SDUWLDOO\ GHULYHG IURP WKH GDWD RI WKH	
&RQGLWLRQV WR PDWILJKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH	
PL[WXUH 7KHVH GDWD DUH QR ELQGLQJ SURGXFW	
VSHFLILFDWLRQV	

6WDELOLW\ DQG UHDFWLYLW

- 5HDFWLYLW\ IXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- &KHPDFDO VWDELOLW\
- 7KHUPDO GHFRPSRVLWLRQ FRQGLWLRQV WR EH DYRLGHG
- 1R GHFRPSRVLWLRQ LI XVHG DFFRUGLQJ WR VSHFLILFDWLRQV
- 3RVVLELOLW\ RI KDJUGRXYH GHDFWLRQV UHDFWLRQV NQRZQ
- &RQGLWLRQV WR PDWILJKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- ,QFRPSDWLEOH PDWHULDOV WKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

&RQWG RQ SDJH

6DIHW\ 'DWD 6KHHW
DFF WR 26+\$ +&6

3DJH
3ULQWLQJ GDWH
5HYLHZHG RQ

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26+\$ 2FFXSDWLRQDO 6DIHW\ +HDOWK
7/9 7KUHVKROG /LPLW 9DOXH
3/ 3HUPLVVLEOH ([SRVXUH /LPLW
5/ 5HFRPPHQGHG ([SRVXUH /LPLW
Â 'DWD FRPSDUHG WR WKH SUHYLRXV YHUVLRQ DOWHUHG

&RQWG RI SDJH

,GHQWLILFDWLRQ

- 3URGXFW LGHQWLILHU
- 7UDGH QDPH (/ ZKHDW
- 5HOHYDQW LGHQWLILHG XVHV RI WKH VXEVDQFH RU PL[WXUH DQG XVHV DGylVHG DJDLQV &XUUHQWO\ QR VXFK DSSOLFDWLRQV DUH LGHQWLILHG
- \$SSOLFDWLRQ RI WKH VXEVDQFH & (WKH 2/25X0\$5 (5 ,1.
- 'HWDLOV RI WKH VXSSOLHU RI WKH VDIHW\ GDWD VKHHW
- 0DQXIDFWXUHU 6XSSOLHU
/LIHOLQHV //&
32 %R[
:HVWSRUW &7
7-
- (PHUJHQF\ WHOHSKRQH QXPEHU
7-

+DJDUG V LGHQWLILFDWLRQ

&ODVVLILFDWLRQ RI WKH VXEVDQFH RU PL[WXUH

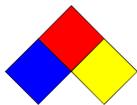
*+6

6HQVLWLJDWLRQ 6NLQ + 0D\ FDXVH DQ DOOHUJLF VNLQ UHDFWLRQ

/DEHO HOHPHQWV
 *+6 ODEHO HOHPHQWV
 7KH SURGXFW LV FODVVLILHG DQG ODEHOG DFFRUGLQJ WR WKH *OREDOO\ +DUPRQLJHG 6\
 +DJDUG SLFWRJUDPV

*+6

6LJQDO ZRUDQLQJ
 +DJDUG VWDWHPHQWV
 + 0D\ FDXVH DQ DOOHUJLF VNLQ UHDFWLRQ
 3UHFDXWLRQDU\ VWDWHPHQWV
 3 3 ,I RQ VNLQ :DVK ZLWK SOHQW\ RI ZDWHU
 3 3 ,I VNLQ LUULWDWLRQ RU UDVK RFFXUV *HW PHGLFDO DGylFH DWWHQWLRQ
 3 6SHFLILF WUHDWPHQW VHH RQ WKLV ODEHO
 3 :DVK FRQWDPDQDWHG FORWKLQJ EHIRUH UHXVH
 3 'LVSrvH RI FRQWHQWV FRQWDLQHU LQ DFFRUGDQFH ZLWK ORFDO UHJLRQDO QDWLRQ
 UHJXODWLRQV
 &ODVVLILFDWLRQ V\ VWHP
 1)3\$ UDWLQJV VFDOH



+HDOWK
)LUH
5HDFWLYLW\

+0,6 UDWLQJV VFDOH



+HDOWK
)LUH
5HDFWLYLW\

&RQWG RI SDJH

2WKHU KD]DUGV
5HVXOWV RI 3%7 DQG Y3Y% DVVHVVPHQW
3%71RW DSSOLFDEOH
Y3Y%1RW DSSOLFDEOH

&RPSRVLWLRQ LQIRUPDWLRQ RQ LQJUHGLHQWV

- &KHPLFDO FKDUDFWHUL]DWLRQ OL[WXUHV
OL[WXUH RI WKH IROORZLQJ VXEVDQFHV FRQWDLQLQJ QRQ KD]DUGRXV VXEVDQFHV DQG
- 'HVFULSWLRQ RI WKH VXEVDQFHV OLVWHG EHORZ ZLWK QRQKD]DUGRXV DGGLWLRQV

A'DQJHURXV FRPSRQHQWV		
	7KLUG 3DUW\)RUPXODWLRQ	73

Å 7KH H[DFW SHUFHQWDJH FRQFHQWUDWLRQ RI FRPSRVLWLRQ KDV EHHQ ZLWKKHOG DV D WUDG

)LUVW DLG PHDVXUHV

- 'HVFULSWLRQ RI ILUVW DLG PHDVXUHV
- \$IWHU LQKDODWLRQ
6XSSO\ IUHVK DLU DQG WR EH VXUH FDOO IRU D GRFWRU
,Q FDVH RI XQFRQVFLRXVQHVV SODFH SDWLHQW VWDEO\ LQ VLGH SRVLWLRQ IRU WUDQVSRU
- \$IWHU VNLQ FRQVWDELO\ ZDVK ZLWK ZDWHU DQG VRDS DQG ULQVH WKRURXJKO\
- \$IWHU H\H FRQVWDELO\ RSHQHGH H\H IRU VHYHUDO PLQXWHV XQGHU UXQLQLQJ ZDWHU
- \$IWHU VZDOORZLQJ SWRPV SHUVLVW FRQVXOW GRFWRU
- QIRUPDWLRQ IRU GRFWRU
- 0RVW LPSRUWDQW V\PSWRPV DQG HIIHFVV ERWK DFXWH DQG GHOD\HG
- 1R IXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- ,QGLFDWLRQ RI DQ\ LPPHGLDWH PHGLFDO DWWHQWLRQ DQG VSHFLDO WUHDWPHQW QHHGHG
- 1R IXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

)LUH ILJKWLQJ PHDVXUHV

- ([WLQJXLVKLQJ PHGLD
- 6XLWDEOH H[WLQJXLVKLQJ PHDVXUHV WKDW VXLW WKH HQYLURQPHQW
- 6SHFLDO KD]DUGV DULVLQJ IURP WKH VXEVDQFHV RUPXODWLRQV DQG LQIRUPDWLRQ DYDLODEOH
- \$GYLFH IRU ILUHILJKWHUV
- 3URWHFWLYH HTXLSPHQW PHDVXUHV UHTXLUH

\$FFLGHQWDO UHOHDVH PHDVXUHV

3HUVRQDO SUHFDXWLRQV SURWHFWLYH HTXLSPHQW DQG HSURRW H[QW\ SHUFRORXWLQJ (QYLURQPHQWDO SUHFDXWLRQV

'LOXWH ZLWK SOHQW\ RI ZDWHU
0HWKRGV DQG PDWHULDO IRU FRQWDLQPHQW DQG FOHDQLQJ XS
\$EV RUE ZLWK OLTXLG ELQGLQJ PDWHULDO VDQG GLDWRPLWH DFLG ELQGHUV XQLYHUVDO
'LVS RVH FRQWDLQDWHG PDWHULDO DV ZDVWH DFFRUGLQJ WR VHFWRQ
(QVXUH DGHTXDWH YHQWLODWLRQ
5HIHQHQFH WR RWKHU VHFWRQV
6HH 6HFWLRQ IRU LQIRUPDWLRQ RQ VDIH KDQGOLQJ
6HH 6HFWLRQ IRU LQIRUPDWLRQ RQ SHUVRQDO SURWHFWLYH HTXLSPHQW
6HH 6HFWLRQ IRU GLVSRVDO LQIRUPDWLRQ
3URWHFWLYH \$FWLRQ &ULWHULD IRU &KHPLFDOV

A 3\$&			
	5 S PHQWKD	GLHQH	
A 3\$&			
	5 S PHQWKD	GLHQH	
A 3\$&			
	5 S PHQWKD	GLHQH	

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SSP

SSP

86
&RQWG RQ SDJH

&RQWG RI SDJH

+DQGOLQJ DQG VWRUDJH

- +DQGOLQJ
- 3UHFDXWLRQV IRU VDIH KDQGOLQJ
(QVXUH JRRG YHQWLODWLRQ H[KDXVWLRQ DW WKH ZRUNSODFH
3UHYHQW IRUPDWLRQ RI DHURVROV
- ,QIRUPDWLRQ DERXW SURWHFWLRQ DJDLQVW H[SRVXUH VFRLOO DQG XUH VHTXLUHG
- &RQGLWLRQV IRU VDIH VWRUDJH LQFOXGLQJ DQ\ LQFRPSDWLELOLWLHV
- 6WRUDJH
- 5HTXLUHPHQWV WR EH PHW E\ VWRUHURRPV DQG H[DFWLYH VHTXLUHPHQWV
- ,QIRUPDWLRQ DERXW VWRUDJH LQ RQH FRPPRQ WRUH TXLUHG FLWLW\
-)XUWKHU LQIRUPDWLRQ DERXW VWRUDJH FRQGLWLRQV
- 6WRUDJH FODVV
- 6SHFLILF HQG XVW XUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

([SRVXUH FRQWUROV SHUVRQDO SURWHFWLRQ

\$GGLWLRQDO LQIRUPDWLRQ DERXW GHVLJQ RI WHFKKROG DW WHPHV VHFWRQ
&RQWURO SDUDPHWHUV
&RPSRQHQWV ZLWK OLPLW YDOXHV WKDW UHTXLUH PRQLWRULQJ DW WKH ZRUNSODFH
7KH IROORZLQJ FRQVWLWXHQW LV WKH RQO\ FRQVWLWXHQW RI WKH SURGXFW ZLWK KDV D
UHFRPPHQGHG H[SRVXUH OLPLW
\$W WKLV WLPH WKH RWKHU FRQVWLWXHQWV KDYH QR NQRZQ H[SRVXUH OLPLWV
7KLUG 3DUW\ RUPXODWLRQ 73
:(// /RQJ WHUP YDOXH PJ Pñ

\$GGLWLRQDO LQIRUPDWLRQV WKDW ZHUH YDOLG GXULQJ WKH FUHDWLRQ ZHUH XVHG DV E
([SRVXUH FRQWUROV
3SHUVRQDO SURWHFWLYH HTXLSHQW
*HQHUDO SURWHFWLYH DQG K\JLHQLF PHDVXUHV
,PPHGLDWHO\ UHPRYH DOO VROHG DQG FRQWDPDQDWHG FORWKLQJ
:DVK KDQGV EHIRUH EUHDNV DQG DW WKH HQG RI ZRUN
%UHDWKLQJ HTXLSHQW
,Q FDVH RI EULHI H[SRVXUH RU ORZ SROOXWLRQ XVH UHVSUDWRU\ ILOWHU GHYLFH ,Q FD
ORQJHU H[SRVXUH XVH UHVSUDWRU\ SURWHFWLYH GHYLFH WKDW LV LQGHSHQGHQW RI FLU
3URWHFWLRQ RI KDQGV

3URWHFWLYH JORYHV

7KH JORYH PDWHULDO KDV WR EH LPSHUPHDEOH DQG UHVLVWDQW WR WKH SURGXFW WKH
SUHSDUDWLRQ
'XH WR PLVVLQJ WHVW QR UHFRPPHQGDWLRQ WR WKH JORYH PDWHULDO FDQ EH JLYHQ IR
SUHSDUDWLRQ WKH FKHPDFDO PL[WXUH
6HOHFWLRQ RI WKH JORYH PDWHULDO RQ FRQVLGHUDWLRQ RI WKH SHQHWDWLRQ WLPHV
GHJUDGDWLRQ
,I RQO\ D VKRUW WHUP ORDGLQJ RI WKH JORYH PDWHULDO E\ VSODVKHV LV H[SHFWHG WU
KLJKHU ZHUUDELOLW\ IRU WKH EHWWHU DFFHSWDQFH RI WKH XVHUV DUH UHFRPPHQGHG
0DWHULDO RI JORYHV
7KH VHOHFWLRQ RI WKH VXLWDEOH JORYHV GRHV QRW RQO\ GHSHQG RQ WKH PDWHULDO E
RI TXDOLW\ DQG YDULHV IURP PDQXIDFWXUHU WR PDQXIDFWXUHU \$V WKH SURGXFW LV D S
VXEWDQFH WKH UHVLVWDQFH RI WKH JORYH PDWHULDO FDQ QRW EH FDOFXODWHG LQ DO
WR EH FKHFNHG SULRU WR WKH DSSOLFDWLRQ
1LWULOH UXEEHU 1%5
3HQHWUDWLRQ WLPH RI JORYH PDWHULDO
7KH H[DFW EUHDN WURXJK WLPH KDV WR EH IRXQG RXW E\ WKH PDQXIDFWXUHU RI WKH SUR
WR EH REVHUYHG
(\H SURWHFWLYH RQOHV UHFRPPHQGHG GXULQJ UHILOOLQJ

3K\VLFDQ DQG FKHPDFDO SURSHUWLHV

,QIRUPDWLRQ RQ EDVLF SK\VLFDQ DQG FKHPDFDO SURSHUWLHV
*HQHUDO ,QIRUPDWLRQ
\$SSHUHQDQFH)OXLG
)RUP)FFRUGLQJ WR SURGXFW VSHFLILFDWLRQ
&RORU \$SURGXFW VSHFLILF
2GRU 3URGXFW VSHFLILF
2GRU WKUHVKROG 1RW GHWHUPLQH

Â ,PSRUWDQW LQIRUPDWLRQ RQ SURWHFWLRQ RI KHDOWK DQG
HQYLURQPHQW DQG RQ VDIHW\

6DIHW\ 'DWD 6KHHW
DFF WR 26+\$ +

3DJH
3ULQWLQJ GDWH
5HYLHZHG RQ

&RQWG RI SDJH

A &KHPLFDOV NQRZQ WR FDXVH UHSURGXFWLYH WR[LFLW\ IRU IHPDOHV
1RQH RI WKH LQJUHGLHQWV LV OLVVHG
A &KHPLFDOV NQRZQ WR FDXVH UHSURGXFWLYH WR[LFLW\ IRU PDOHV
1RQH RI WKH LQJUHGLHQWV LV OLVVHG
A &KHPLFDOV NQRZQ WR FDXVH GHYHORSRPHQWDO WR[LFLW\
1RQH RI WKH LQJUHGLHQWV LV OLVVHG
'6/ 1'6/ &DQDQDO LQJUHGLHQWV DUH OLVVHG
&DQFHURJHQLW\ FDWHJRULHV
A (3\$ (QYLURQPHQWDO 3URWHFWLRQ \$JHQF\
1RQH RI WKH LQJUHGLHQWV LV OLVVHG
A 7/9 7KUHVKROG /LPLW 9DOXH
1RQH RI WKH LQJUHGLHQWV LV OLVVHG
A 0\$. *HUPDQ 0D[LXP :RUNSODFH &RQFHQWUDWLRQ
1RQH RI WKH LQJUHGLHQWV LV OLVVHG
A 1,26+ &D 1DWLRQDO ,QVWLWXWH IRU 2FFXSDWLRQDO 6DIHW\ DQG +HDOWK
1RQH RI WKH LQJUHGLHQWV LV OLVVHG

*+6 ODEHO HOHPHQW
7KH SURGXFW LV FODVVLILHG DQG ODEHOG DFFRUGLQJ WR WKH *OREDOO\ +DUPRQLJHG 6V\

*+6

6LJQDO ZRDLGLQJ

+D]DUG GHWHUPLQLQJ FRPSRQHQWV RI ODEHOLQJ

OLQDO\O DFHWDWH

+D]DUG VWDWHPHQWV

+ 0D\ FDXVH DQ DOOHUJLF VNLQ UHDFWLRQ

+ +DUPIXO WR DTXDWLF OLIH

3UHFDXWLRQDU\ VWDWHPHQWV

3 3 ,I RQ VNLQ :DVK ZLWK SOHQW\ RI ZDWHU

3 3 ,I VNLQ LUULWDWLRQ RU UDVK RFFXUV *HW PHGLFDO DGYLFH DWWHQWLRQ

3 6SHFLILF WUHDWPHQW VHH RQ WKLV ODEHO

3 :DVK FRQWDPDQDWHG FORWKLQJ EHIRUH UHXVH

3 'LVSRVH RI FRQWHQWV FRQWDLQHU LQ DFFRUGDQFH ZLWK ORFDO UHJLRQDO QDWLRQ

UHJXODWLRQV

1DWLRQDO UHJXODWLRQV

7HFKQLFDO LQVWUXFWLRQV DLU

&ODVV 6KDUH LQ

1.

:DWHU KD]DUG FODVV KD]DUG FODVV 6HOI DVVHVVPHQW H[WUHPHO\ KD]DUGRXV IRU ZDWHU
&KHPLFDO VDIHW\ DVVHVVPHQWDO 6DIHW\ \$VVHVVPHQW KDV QRW EHHQ FDUULHG RXW

2WKHU LQIRUPDWLRQ

7KLV LQIRUPDWLRQ LV EDVHG RQ RXU SUHVHQW NQRZOHGJH +RZHYHU WKLV VKDOO QRW FODVVLILH
IRU DQ\ VSHFLILF SURGXFW IHDWXUHV DQG VKDOO QRW HVWDEOLVK D OHJDOO\ YDOLG FRQ

- &RQWDFW
- 'DWH RI SUHSDUDWLRQ ODVV UHYLVLRQ
- \$EEUHYLDWLRQV DQG DFURQ\PV
- \$5 \$FFRUG UHODWLI DX WUDQVSRUW LQWHUQDWLRQDO GHV PDUFKDQGLVHV GDQJHUHVHV SDU URXWH (XURSHDQ \$JUH
- &DUULDJH RI 'DQJHURXV *RRG E\ 5RDG
- ,0' ,QWHUQDWLRQDO ODULWLPH &RGH IRU 'DQJHURXV *RRG
- '27 86 'HSDUWPHQW RI 7UDQVSRUWDWLRQ
- ,7\$,QWHUQDWLRQDO \$LU 7UDQVSRUW \$VVRFLDWLRQ
- (,1(&6 (XURSHDQ ,QYHQWUR\ RI ([LVWLQJ &RPPHUFDO &KHPLFDO 6XEVWDQFHV
- (/ ,1&6 (XURSHDQ /LVW RI 1RWLILHG &KHPLFDO 6XEVWDQFHV
- &\$6 &KHPLFDO \$EVWUDFVV 6HUYLFH GLYLVLVRQ RI WKH \$PHULFDQ &KHPLFDO 6RFLHW\
- 1)3\$ 1DWLRQDO)LUH 3URWHFWLRQ \$VVRFLDWLRQ 86\$
- +0,6 +D]DUGRXV ODWHULDQV ,GHQWLILFDWLRQ 6LVVHP 86\$
- 3%7 3HUVLVVHQW %LRDFFXPXODWLYH DQG 7R[L
- Y3Y% YHU\ 3HUVLVVHQW DQG YHU\ %LRDFFXPXODWLYH
- 1,26+ 1DWLRQDO ,QVWLWXWH IRU 2FFXSDWLRQDO 6DIHW\
- 26+\$ 2FFXSDWLRQDO 6DIHW\ +HDOWK
- 7/9 7KUHVKROG /LPLW 9DOXH
- 3(7 3HUPLVV\SRVX/LPL

6DIHW\ 'DWD 6KHHW
DFF WR 26+\$ +

3DJH
3ULQWLQJ GDWH
5HYLHZHG RQ

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5// 5HFRPPHQGHG ([SRVXUH /LPLW
6HQVLWL]DWLRQ 6NLQ 6NLQ VHQVWLWLVRDULRQ
\$TXDWLF \$FXWH +D]DUGRXV WR WKH DTXDWLF HQYLURQPHQW DDFRPH DTXDWLF KD]DUG
Â 'DWD FRPSDUHG WR WKH SUHYLRXV YHUVLRQ DOWHUHG

&RQWG RI SDJH

Trade name: 80-55-D13 olive green

(Contd. of page 1)

ies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove m

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from e**

d.

6 Accidental release measures

- **Personal Precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Appearance:**
- **Environmental Form:** Fluid
- **Color:** According to product specification
- **Odor:** Product specific
- **Odor threshold:** Not determined
- **Reference to other sections** Liquid-binding material (sand, diatomite, universal binders, sawdust).
- **Reference to other sections** No d

tection equipment.

See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

None of the ingredients is li

Exposure limits:

Lower:

Not determined.

Upper:

Not determined.

- **Vapor pressure at 20°C (68°F):** 23 hPa (17.251 mm Hg)
- **Density at 20°C (68°F):** 1 g/cm³ (8.3)

Ensure good ventilation/exhaustion at the workplace.

- **Information about storage in one common storage facility:** No special requirements.
- **Further info**

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Component**

cal properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These da (cont'd. on page 3)

higher resistance for the better acceptance of the users are recommended.

selection of the glove material on consideration of the penetration times, rate of preparation of the chemical mixture.

the product/ the

The glove material has to be impermeable and resistant.

- **Protection of hands:**
- **Protective equipment:** not required.

chemicals should be followed the product/ the

preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rate

- **Additional information:** The risks that were valid during the creation were used as basis to be monitored at the workplace.

lines that have to

Trade name: 80-55-D13 olive green

(Contd. of page 2)

Trade name: 80-55-D13 olive green

(Contd. of page 3)

ies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove ma

11 Toxicological information

- **Information on toxicological effects**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from:**
- **on the skin:** No irritant effect

allowing dangers according to internally approved calculation methods for preparations:
The product is not subject to classification

s, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic category:**

nts is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**
- None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aq**

in environmental systems:

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in water:** No further relevant information

Lower: Not determined.
Upper: Not determined.

- **Vapor pressure at 20°C (68°F):** 23 hPa (17.251 mm Hg)
Ensure good ventilation/exhaustion at the workplace.
- **Density at 20°C (68°F):** 1 g/cm³ (8.3)

- **Chemical characterization: Mixtures**
Mixture of the following substances, containing non-hazardous substances

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** not applicable
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** not applicable
- **Transport**

- **Recommendations:**
- **Recommendation:** Smaller quantities can be disposed of with household waste treatment methods

- **Results of HPL and UV-Vis analysis:**
- **Results of HPL and UV-Vis analysis:**

- **Other**
- **Toxicity**

15 Ecological information

- **OSHA-Ca (Occupational Safety & Health Administration)**
- None of the ingredients is listed.
- None of the ingredients is listed.

Trade name: 80-55-D13 olive green

(Contd. of page 4)

not applicable

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

• Seq

Ingredients is listed.

- TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.

- Hazardous Air Pollutants

None of the ingre

Toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is l

Reproductive toxicity categories

- EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value)

None of the ingredien

Occupational Safety and Health

None of the ingredients is listed.

- GHS label elements none
- Hazard pictograms none
- Signal word none
- Hazard statements no

Assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our pres

valid contractual relationship.

- Contact:
- Date of preparation / last revision 05/21/2025
- Abbreviations and acronyms:

RID: Règlement interna

transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IA

n" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concern

ment of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chem

erican Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (

Safety Data Sheet
acc. to OSHA HCS

Trade name: 80-55-D13 olive green

E

(Contd. of page 5)

Exposure Limit
REL: Recommended Exposure Limit

· * Data compared to the previous version altered.

- US -

&RQWG RI SDJH

&RQGLWLRQV IRU VDIH VWRUDJH LQFOXGLQJ DQ\ LQFRPSDWLELOLWLHV
6WRUDJH
5HTXLUHPHQWV WR EH PHW E\ VWRUHURRPR DQGH FULDFH \$JW D X IOUHVPHQWV
,QIRUPDWLRQ DERXW VWRUDJH LQ RQH FRPPRQR WURHUTXLHU HIGFLOLW\
)XUWKHU LQIRUPDWLRQ DERXW VWRUDJH FRQGLWLRQV
6WRUDJH FODVV
6SHFLILF HQG XVW XUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

([SRVXUH FRQWUROV SHUVRQDO SURWHFWLRQ

\$GGLWLRQDO LQIRUPDWLRQ DERXW GHVLJQ RI WHFKFKFDODG DW WHPHV VHFWRQ
&RQWURO SDUDPHWHUV
&RPSRQHQWV ZLWK OLPLW YDOXHV WKDW UHTXLUH PRQLWRULQJ DW WKH ZRUNSODFH
7KH IROORZLQJ FRQVWLWXHQW LV WKH RQO\ FRQVWLWXHQW RI WKH SURGXFW ZLWK KDV D
UHFRPPHQGHG H[SRVXUH OLPLW
\$W WKLW WLPH WKH RWKHU FRQVWLWXHQWV KDYH QR NQRZQ H[SRVXUH OLPLWV

7KLUG SDUW\ IRUPXODWLRQ 73

:((/RQJ WHUP YDOXH PJ Pñ

\$GGLWLRQDO LQIRUPDWLRQV WKDW ZHUH YDOLG GXULQJ WKH FUHDWLRQ ZHUH XVHG DV E
([SRVXUH FRQWUROV
3HUVRQDO SURWHFWLYH HTXLSPHQW
*HQHUDO SURWHFWLYH DQG K\JLHQLF PHDVXUHV
%UHDWKLQJ HTXLSPHQW
,Q FDUH RI EULHI H[SRVXUH RU ORZ SROOXWLRQ XVH UHVSLUDWRU\ ILOWHU GHYLFH ,Q FD
ORQJHU H[SRVXUH XVH UHVSLUDWRU\ SURWHFWLYH GHYLFH WKDW LV LQGHSHQGHQW RI FLU
3URWHFWLRQ RI KDQGV

3URWHFWLYH JORYHV

7KH JORYH PDWHULDO KDV WR EH LPSHUPHDEOH DQG UHVLVWDQW WR WKH SURGXFW WKH
SUHSDUDWLRQ
'XH WR PLVVLQJ WHVW QR UHFRPPHQGDWLRQ WR WKH JORYH PDWHULDO FDQ EH JLYHQ IR
SUHSDUDWLRQ WKH FKHPDFDO PL[WUH
6HOHFWLRQ RI WKH JORYH PDWHULDO RQ FRQVLGHUDWLRQ RI WKH SHQHWUDWLRQ WLPHV
GHJUDGDWLRQ
,I RQO\ D VKRUW WHUP ORDGLQJ RI WKH JORYH PDWHULDO E\ VSODVKHV LV H[SHFWHG WU
KLJKHU ZHDELOLW\ IRU WKH EHWWHU DFFHSDWDFH RI WKH XVHUV DUH UHFRPPHQGHG
0DWHULDO RI JORYHV
7KH VHOHFWLRQ RI WKH VXLWDEOH JORYHV GRHV QRW RQO\ GHSHQG RQ WKH PDWHULDO E
RI TXDOLW\ DQG YDULHV IURP PDQXIDFWXUHU WR PDQXIDFWXUHU \$V WKH SURGXFW LV D S
VXEVDQFHV WKH UHVLVWDQFH RI WKH JORYH PDWHULDO FDQ QRW EH FDOFXODWHG LQ DO
WR EH FKHFNHG SULRU WR WKH DSSOLFDFWLRQ
1LWULOH UXEEHU 1%5
3HQHWUDWLRQ WLPH RI JORYH PDWHULDO
7KH H[DFW EUDN WURXJK WLPH KDV WR EH IRXQG RXW E\ WKH PDQXIDFWXUHU RI WKH SUR
WR EH REVHUYHG
(\H SURWHFWLRQOHV UHFRPPHQGHG GXULQJ UHILOOLQJ

3K\VLFDQ DQG FKHPDFDO SURSHUWLHV

,QIRUPDWLRQ RQ EDVLF SK\VLFDQ DQG FKHPDFDO SURSHUWLHV
*HQHUDO ,QIRUPDWLRQ
\$\$SHDUDQFH)OXLG
)RUP \$FFRUGLQJ WR SURGXFW VSHFLILFDWLRQ
&RORU 3URGXFW VSHFLILF
2GRU 1RW GHWHUPLQH
2GRU WKUHVKROG

Â ,PSRUWDQW LQIRUPDWLRQ RQ SURWHFWLRQ RI KHDWK
HQYLURQPHQW DQG RQ VDIHW\

Â S+ YDOXH DW f& f)

Â &KDQJH LQ FRQGLWLRQ
0HOWLQJ SRLQW 0HOWLQJ UDQJH 8QGHHUPLQH
%RLOLQJ SRLQW %RLOLQJ UDQJH f& f)

Â)ODVK SRLQW 1RW DSSOLFDEOH

&RQWG RQ SDJH

&RQWG RI SDJH

Ã)ODPPDELOLW\	1RW DSSOLFDEOH
Ã 'HFRPSRVLWLRQ WHPSHUDWXUH	1RW GHWHUPLQHG
Ã ,JQLWLRQ WHPSHUDWXUH	3URGXFW LV QRW VHOILJQLWLQJ
Ã 'DQJHU RI H[SORVLRQ	1RW GHWHUPLQHG
Ã ([SORVLRQ OLPLVV /RZHU 8SSHU	9RO 9RO
Ã 9DSRU SUHVXUH DW f& f) Ã 9DSRU SUHVXUH DW f& f)	K3D PP +J K3D PP +J
Ã 'HQVLW\ DW f& f) Ã 5HODWLYH GHQVLW\ Ã 9DSRU GHQVLW\ Ã (YDSRUDWLRQ UDW	J FPa OEV JDO 1RW GHWHUPLQHG 1RW GHWHUPLQHG 1RW GHWHUPLQHG
Ã 6ROXELOLW\ LQ 0LVFLELOLW\ ZLWK :DWHU)XOO\ PLVFLEOH
Ã 3DUWLWLRQ FRHIILFLHQW Q RFWDQRO ZRWHG	1RW GHWHUPLQHG
Ã 9LVFRVLW\ '\QDPLF DW f& f) .LQHDPWLF	P3DV 1RW GHWHUPLQHG
Ã 6ROYHQW FRQWHQW 2UJDQLF VROYHQWV :DWHU	1RW GHWHUPLQHG 1RW GHWHUPLQHG
6ROLVV FRQWHQW	1RW GHWHUPLQHG
Ã 2WKHU LQIRUPDWLRQ	7KH SK\VLFDQ DQG FKHPFDQ SURSHUWHV JLYHQ L 6HFWRQ DUH URXJK GDWD RQ\ ZKLFK DUH SDUWLDOO\ GHULYHG Goddard WKB GDWD RI WKH PL\WXUH 7KHVH GDWD DUH QR ELQGLQJ SURGXFW VSHFLILFDWLRQV

6WDELOLW\ DQG UHDFWLYLW

- 5HDFWLYLW\ IXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- &KHPLFDQ VWDELOLW\
- 7KHUPDO GHFRPSRVLWLRQ FRQGLWLRQV WR EH DYRLGHG
1R GHFRPSRVLWLRQ LI XVHG DFFRUGLQJ WR VSHFLILFDWLRQV
- 3RVVLELOLW\ RI KD]DUGRXXV 6HDFWLYLW\
- &RQGLWLRQV WR RYHURXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- ,QFRPSDWLEOH PDWURUDWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- +D]DUGRXXV GHFRPSRVLWLRQ SURGXFWV GHFRPSRVLWLRQ SURGXFWV NQRZQ

7R[LFRORJLFDO LQIRUPDWLRQ

,QIRUPDWLRQ RQ WR[LFRORJLFDO HIIHFWV
 \$FXWH WR[LFLW\
 3ULPDU\ LUULWDQW HIIHFW
 RQ WKH VNRQLUULWDQW HIIHFW
 RQ WKH HIR LUULWDWLRQ HIIHFW
 6HQVLW\DWLWLRQ]DWLRQ SRVVLEOH WKURXJK VNLQ FRQWDFW
 \$GGLWLRQDO WR[LFRORJLFDO LQIRUPDWLRQ
 7KH SURGXFW VKRZV WKH IROORZLQJ GDQJHUV DFFRUGLQJ WR LQWHUQDOO\ DSSURYHG FDO
 SUHSDUDWLRQV
 ,UULWDQW
 &DUFLQRJHQLF FDWHJRULHV

Ã ,5& ,QWHUQDWLRQDO \$JHQF\ IRU 5HVHDFK RQ &DQFHU
1RQH RI WKH LQJUHGLHQWV LV OLVWHG
Ã 173 1DWLRQDO 7R[LFRORJ\ 3URJUDP
1RQH RI WKH LQJUHGLHQWV LV OLVWHG
Ã 26+\$ &D 2FFXSDWLRQDO 6DIHW\ +HDWK \$GPLQLVWUDWLRQ
1RQH RI WKH LQJUHGLHQWV LV OLVWHG

&RQWG RI SDJH

+DQGOLQJ DQG VWRUDJH

- +DQGOLQJ
- 3UHFDXWLRQV IRU VDIH KDQGOLQJ
(QVXUH JRRG YHQWLODWLRQ H[KDXVWLRQ DW WKH ZRUNSODFH
3UHYHQW IRUPDWLRQ RI DHURVROV
- ,QIRUPDWLRQ DERXW SURWHFWLRQ DJDLQVW H[SRVSHFLRQ DQG XUH VHTXLUHG
- &RQGLWLRQV IRU VDIH VWRUDJH LQFOXGLQJ DQ\ LQFRPSDWLELOLWLHV
- 6WRUDJH
- 5HTXLUHPHQWV WR EH PHW E\ VWRUHURRPV DQG H[DFWLYH PHQWV
- ,QIRUPDWLRQ DERXW VWRUDJH LQ RQH FRPPRQ WURUDJH H[DFWLYH
-)XUWKHU LQIRUPDWLRQ DERXW VWRUDJH FRQGLWLRQV
- 6WRUDJH FODVV
- 6SHFLILF HQG XVW XUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

([SRVXUH FRQWUROV SHUVRQDO SURWHFWLRQ

\$GGLWLRQDO LQIRUPDWLRQ DERXW GHVLJQ RI WHFKKROG DW WHPHV VHFWRQ
&RQWURO SDUDPHWHUV
&RPSRQHQWV ZLWK OLPLW YDOXHV WKDW UHTXLUH PRQLWRULQJ DW WKH ZRUNSODFH
7KH IROORZLQJ FRQVWLWXHQW LV WKH RQO\ FRQVWLWXHQW RI WKH SURGXFW ZLFK KDV D
UHFRPPHQGHG H[SRVXUH OLPLW
\$W WKLV WLPH WKH RWKHU FRQVWLWXHQWV KDYH QR NQRZQ H[SRVXUH OLPLWV
7KLUG 3DUW\)RUPXODWLRQ 73
:(// /RQJ WHUP YDOXH PJ Pñ

\$GGLWLRQDO LQIRUPDWLRQV WKDW ZHUH YDOLG GXULQJ WKH FUHDWLRQ ZHUH XVHG DV E
([SRVXUH FRQWUROV
3SHUVRQDO SURWHFWLYH HTXLSPHQW
*HQHUDO SURWHFWLYH DQG K\JLHQLF PHDVXUHV
,PPHGLDWHO\ UHPRYH DOO VROHG DQG FRQWDPDQDWHG FORWKLQJ
:DVK KDQGV EHIRUH EUHDNV DQG DW WKH HQG RI ZRUN
%UHDWKLQJ HTXLSPHQW
,Q FDVH RI EULHI H[SRVXUH RU ORZ SROOXWLRQ XVH UHVSUDWRU\ ILOWHU GHYLFH ,Q FD
ORQJHU H[SRVXUH XVH UHVSUDWRU\ SURWHFWLYH GHYLFH WKDW LV LQGHSHQGHQW RI FLU
3URWHFWLRQ RI KDQGV

3URWHFWLYH JORYHV

7KH JORYH PDWHULDO KDV WR EH LPSHUPHDEOH DQG UHVLVWDQW WR WKH SURGXFW WKH
SUHSDUDWLRQ
'XH WR PLVVLQJ WHVW QR UHFRPPHQGDWLRQ WR WKH JORYH PDWHULDO FDQ EH JLYHQ IR
SUHSDUDWLRQ WKH FKHPDFDO PL[WXUH
6HOHFWLRQ RI WKH JORYH PDWHULDO RQ FRQVLGHUDWLRQ RI WKH SHQHWUDWLRQ WLPHV
GHJUDGDWLRQ
,I RQO\ D VKRUW WHUP ORDGLQJ RI WKH JORYH PDWHULDO E\ VSODVKHV LV H[SHFWHG WU
KLJKHU ZHDELOLW\ IRU WKH EHWWHU DFFHSWDQFH RI WKH XVHUV DUH UHFRPPHQGHG
0DWHULDO RI JORYHV
7KH VHOHFWLRQ RI WKH VXLWDEOH JORYHV GRHV QRW RQO\ GHSHQG RQ WKH PDWHULDO E
RI TXDOLW\ DQG YDULHV IURP PDQXIDFWXUHU WR PDQXIDFWXUHU \$V WKH SURGXFW LV D S
VXEWDQFH WKH UHVLVWDQFH RI WKH JORYH PDWHULDO FDQ QRW EH FDOFXODWHG LQ DO
WR EH FKHFNHG SULRU WR WKH DSSOLFDWLRQ
1LWULOH UXEEHU 1%5
3HQHWUDWLRQ WLPH RI JORYH PDWHULDO
7KH H[DFW EUHDN WURXJK WLPH KDV WR EH IRXQG RXW E\ WKH PDQXIDFWXUHU RI WKH SUR
WR EH REVHUYHG
(\H SURWHFWLYH RQOHV UHFRPPHQGHG GXULQJ UHILOOLQJ

3K\VLFDQ DQG FKHPDFDO SURSHUWLHV

,QIRUPDWLRQ RQ EDVLF SK\VLFDQ DQG FKHPDFDO SURSHUWLHV
*HQHUDO ,QIRUPDWLRQ
\$SSHUHQDQFH)OXLG
)RUP)FFRUGLQJ WR SURGXFW VSHFLILFDWLRQ
&RORU \$SURGXFW VSHFLILF
2GRU 3URGXFW VSHFLILF
2GRU WKUHVKROG 1RW GHWHUPLQH

Â ,PSRUWDQW LQIRUPDWLRQ RQ SURWHFWLRQ RI KHDOWK DQG
HQYLURQPHQW DQG RQ VDIHW\

&RQWG RI SDJH

Ã S+ YDOXH DW f& f)	
Ã &KDQJH LQ FRQGLWLRQ 0HOWLQJ SRLQW 0HOWLQJ UDQJH %RLOLQJ SRLQW %RLOLQJ UDQJH	8QGHWHUPLQHG f& f)
Ã)ODVK SRLQW	1RW DSSOLFDEOH
Ã)ODPPDELOLW\	1RW DSSOLFDEOH
Ã 'HFRPSRVLWLRQ WHPSHUDWXUH	1RW GHWHUPLQHG
Ã ,JQLWLRQ WHPSHUDWXUH	3URGXFW LV QRW VHOILJQLWLQJ
Ã 'DQJHU RI H[SORVLRQ	1RW GHWHUPLQHG
Ã ([SORVLRQ OLPLWV /RZHU 8SSHU	9RO 9RO
Ã 9DSRU SUHVXUH DW f& f) Ã 9DSRU SUHVXUH DW f& f)	K3D PP +J K3D PP +J
Ã 'HQVLW\ DW f& f) Ã 5HODWLYH GHQVLW\ Ã 9DSRU GHQVLW\ Ã (YDSRUDWLRQ UDWH	J FPñ OEV JDO 1RW GHWHUPLQHG 1RW GHWHUPLQHG 1RW GHWHUPLQHG
Ã 6ROXELOLW\ LQ 0LVFLELOLW\ ZLWK :DWHU)XOO\ PLVFLEOH
Ã 3DUWLWLRQ FRHIILFLHQW Q RFWDQRO ZRWHG	1RW GHWHUPLQHG
Ã 9LVFRVLW\ 'QDPLF DW f& f) .LQHPDWLF	P3DV 1RW GHWHUPLQHG
Ã 6ROYHQW FRQWHQW 2UJDQLF VROYHQWV :DWHU	1RW GHWHUPLQHG 1RW GHWHUPLQHG
6ROLV FRQWHQW	1RW GHWHUPLQHG
Ã 2WKHU LQIRUPDWLRQ	7KH SK\VLFDQ DQG FKHPLFDO SURSHUWLHV JLYHQ L 6HFWLRQ DUH URXJK GDWD RQ\ ZKLFK DUH SDUWLDOO\ GHULYHG GodbRen WK GDWD RI WKH PLWXUH 7KHVH GDWD DUH QR ELQGLQJ SURGXFW VSHFLILFDWLRQV

6WDELOLW\ DQG UHDFWLYLW

- 5HDFWLYLW\ IXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- &KHPLFDO VWDELOLW\
- 7KHUPDO GHFRPSRVLWLRQ FRQGLWLRQV WR EH DYRLGHG
- 1R GHFRPSRVLWLRQ LI XVHG DFFRUGLQJ WR VSHFLILFDWLRQV
- 3RVVLELOLW\ RI KD]DUGRXYV 6HDFWLYLW\ UHDFWLRQV NQRZQ
- &RQGLWLRQV WR RYHURXU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- ,QFRPSDWLEOH PDWHULIXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- +D]DUGRXYV GHFRPSRVLWLRQ SURGXFWV GHFRPSRVLWLRQ SURGXFWV NQRZQ

7R[LFRORJLFDO LQIRUPDWLRQ

- ,QIRUPDWLRQ RQ WR[LFRORJLFDO HIIHFW
- \$FXWH WR[LFLW\
- 3ULPDU\ LUULWDQW HIIHFW
- RQ WKH VNRQLUULWDQW HIIHFW
- RQ WKH HIRLUULWDWLQJ HIIHFW
- 6HQVLWLY\DWLRQ\DWLRQ SRVVLEOH WKURXJK VNLQ FRQWDFW
- \$GGLWLRQDO WR[LFRORJLFDO LQIRUPDWLRQ
- 7KH SURGXFW VKRZV WKH IROORZLQJ GDQJHUV DFFRUGLQJ WR LQWHUQDOO\ DSSURYHG FDO
SUHSDUDWLRQV
- ,UULWDQW
- &DUFLQRJHQLF FDWHJRULHV

Ã ,5& ,QWHUQDWLRQDO \$JHQF\ IRU 5HVHDUFK RQ &DQFHU

1RQH RI WKH LQJUHGLHQWV LV OLVWHG

Ã 173 1DWLRQDO 7R[LFRORJ\ 3URJUDP

1RQH RI WKH LQJUHGLHQWV LV OLVWHG

&RQWG RQ SDJH

&RQWG RI SDJH

A 26+\$ &D 2FFXSDWLRQDO 6DIHW\ +HDOWK \$GPLQLVWUDWLRQ
1RQH RI WKH LQJUHGLHQWV LV OLVWHG

(FRORJLFDO LQIRUPDWLRQ

- 7R[LFLW\
- \$TXDWLF WR[LFRWXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- 3HUVLVWHQFH DQG GHJUDGDWLRQ UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- %HKDYLRU LQ HQYLURQPHQWDO V\VWHPV
- %LRDFFXPXODWLYH SRWHQWKB OHOHYDQW LQIRUPDWLRQ DYDLODEOH
- 0RELOLW\ LQ RILDUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- (FRWRJLFDO HIIHFWV
- \$GGLWLRQDO HFRORJLFDO LQIRUPDWLRQ
- *HQHUDO QRWHV
- :DWHU KD]DUG FODVV 6HOI DVVHVVPHQW VOLJKWO\ KD]DUGRXV IRU ZDWHU
- 'R QRW DOORZ XQGLOXWHG SURGXFW RU ODUJH TXDQWLWLHV RI LW WR UHDFK JURXQG ZDV
- VHZDJH V\VWHPV
- 5HVXOWV RI 3%7 DQG Y3Y% DVVHVVPHQW
- 3%7 1RW DSSOLFDEOH
- Y3Y% 1RW DSSOLFDEOH
- 2WKHU DGYHUVH HRIHXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

K

'LVSVDV FRQVLGHUDWLRQV

- :DVWH WUHDWPHQW PHWKRGV
- 5HFRPPHQGDWLRQ
- 8QFOHDQHG SDFNDJLQJV
- 5HFRPPHQGDWLRQV LVSVDV PXVW EH PDGH DFFRUGLQJ WR RILFLDO UHJXODWLRQV
- 5HFRPPHQGHG FOHDQVLDWLRQV HRFHVVDU\ ZLWK FOHDQVLQJ DJHQWV

7UDQVSRUW LQIRUPDWLRQ

81 1XPEHU '27 '\$5 ,0' * , \$7\$	QRW DSSOLFDEOH
81 SURSHU VKLSSLQJ QDPH '27 '\$5 ,0' * , \$7\$	QRW DSSOLFDEOH
7UDQVSRUW KD]DUG FODVV HV '27 '\$5 \$'1 ,0' * , \$7\$ &ODVV	QRW DSSOLFDEOH
3DFNLQJ JURXS '27 '\$5 ,0' * , \$7\$	QRW DSSOLFDEOH
Â (QYLURQPHQWDO KD]DUGV	1RW DSSOLFDEOH
Â 6SHFLDO SUHFDXWLRQV IRU XVHU	1RW DSSOLFDEOH
Â 7UDQVSRUW LQ EXON DFFRUGLQJ WR \$QQH\ , , RI 0\$532/ DQG WKH ,%& &RGH	1RW DSSOLFDEOH
Â 81 0RGHO 5HJXODWLRQ	QRW DSSOLFDEOH

5HJXODWRU\ LQIRUPDWLRQ

- 6DIHW\ KHDOWK DQG HQYLURQPHQWDO UHJXODWLRQV OHJLVODWLRQ VSHFLILF IRU WKH VX
- 6DUD

A 6HFWLRQ H[WUHPHO\ KD]DUGRXV VXEVWDQFHV 1RQH RI WKH LQJUHGLHQWV LV OLVWHG
Â 6HFWLRQ 6SHFLILF WRJLF FKHPLFDO OLVWLQJV 1RQH RI WKH LQJUHGLHQWV LV OLVWHG
A 76&\$ 7RJLF 6XEVWDQFHV &RQWURO \$FW \$OO FRPSRQHQWV KDYH WKH YDOXH \$&7,9(
A +D]DUGRXV \$LU 3ROOXWDQWV 1RQH RI WKH LQJUHGLHQWV LV OLVWHG

&RQWG RQ SDJH

6DIHW\ 'DWD 6KHHW
DFF WR 2

3DJH
3ULQWLQJ GDWH
5HYLHZHG RQ

&RQWG RI SDJH

Y3Y% YHU\ 3HUVLVWHQW DQG YHU\ %LRDFFXPXODWLYH
1,26+ 1DWLRQDO ,QVWLWXWH IRU 2FFXSDWLRQDO 6DIHW\
26+\$ 2FFXSDWLRQDO 6DIHW\ +HDOWK
7/9 7KUHVKROG /LPLW 9DOXH
3(/ 3HUPLVVLEOH ([SRVXUH /LPLW
5(/ 5HFRPPHQGHG ([SRVXUH /LPLW
6HQVLWL]DWLRQ 6NLQ 6NLQ VHQVWLWL]DWLRQ
\$TXDWLF \$FXWH +D]DUGRXV WR WKH DTXDWLF HQYLURQPHQW &DORQH RYHUP DTXDWLF KD]DUG
\$TXDWLF &KURQLF +D]DUGRXV WR WKH DTXDWLF HQYLURQPHQW &DORQH RYHUP DTXDWLF KD]DUG
À 'DWD FRPSDUHG WR WKH SUHYLRXV YHUVLRQ DOWHUHG

SAFETY DATA SHEET

Issuing Date 15-May-2025

Revision Date 17-Apr-2025

Revision Number 1

NGHS / English



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1. IDENTIFICATION

Product identifier

Product Name Lava Pen - Blue and Turquoise

Other means of identification

Product Code(s) 1849624

Recommended use of the chemical and restrictions on use

Recommended Use Pens

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification Lifelines, LLC

Address PO BOX 5220
Westport
CT
06881
US

Telephone Phone:4759007335

E-mail Rebecca@Lifelines.com

Emergency telephone number

Company Emergency Phone Number 4759007335

2. HAZARDS IDENTIFICATION

Classification

Not classified.

The product contains no substances which at their given concentration, are considered to be hazardous to health



Appearance Blue**Physical state** Pre-Moistened Towelette
(free liquids) Liquid**Odor** Pleasant**GHS Label elements, including precautionary statements****Hazard statements**

Not classified.

Other information

Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance**

Not applicable.

Mixture

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Third Party Formulation (TP # 1848926)	-	0 - 10%	-	-
Third Party Formulation (TP # 1848926)	-	0 - 10%	-	-

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures**

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Hazardous Combustion Products	Carbon oxides.
Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Third Party Formulation (TP # 1848926)	TWA: 10 mg/m ³ mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction		
Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Third Party Formulation (TP # 1848926)	TWA: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 3 mg/m ³		TWA: 10 mg/m ³

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Pre-Moistened Towelette (free liquids); Liquid

Appearance Blue

Odor Pleasant

Color No information available

Odor Threshold Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	6.5	
Melting / freezing point	No data available	None known
Boiling point / boiling range	100 °C / 212 °F	
Flash Point	94 C / 201.2 F	
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known



Vapor density	No data available	None known
Relative density	1	
Water Solubility	Miscible	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water	No data available	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other Information

Explosive properties	No information available
Oxidizing properties	No information available
Softening Point	No information available
Molecular Weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk Density	No information available
Particle Size	No information available
Particle Size Distribution	No information available

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous Decomposition Products	Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
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Numerical measures of toxicity

Acute toxicity

Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Product Information**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Third Party Formulation (TP # 1848926)	= 27200 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 5.85 mg/L (Rat) 4 h
Third Party Formulation (TP # 1848926)	> 10000 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Third Party Formulation (TP # 1848926)	-	Group 3	-	-

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Third Party Formulation (TP # 1848926)	No data available	96h LC50: 51 - 57 mL/L (Oncorhynchus mykiss)	No data available	No data available

Persistence and Degradability No information available.

Bioaccumulation**Component Information**

Chemical name	Partition coefficient
Third Party Formulation (TP # 1848926)	-1.75
Third Party Formulation (TP # 1848926)	-6.4

Mobility No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT
Proper Shipping Name NOT REGULATED
Hazard Class NON-REGULATED
 N/A

TDG Not applicable

MEX Not applicable

ICAO Not applicable

IATA
Proper Shipping Name Not applicable
Hazard Class NON REGULATED
 N/A

IMDG/IMO
Hazard Class Not applicable
 N/A

RID Not applicable

ADR Not applicable

ADN Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture**International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable



The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Third Party Formulation (TP # 1848926)	X	X	X		



Third Party Formulation (TP # 1848926)		X			
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16. OTHER INFORMATION

NFPA **Health hazards** 1 **Flammability** 1 **Instability** 0 **Physical and Chemical Properties -**
HMIS **Health hazards** 1 **Flammability** 1 **Physical hazards** 0 **Personal Protection** X

Prepared By Product Stewardship
 23 British American Blvd.
 Latham, NY 12110
 1-800-572-6501

Issuing Date 15-May-2025

Revision Date 17-Apr-2025

Revision Note No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

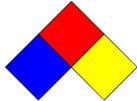


,GHQWLILFDWLRQ

- 3URGXFW LGHQWLILHU
- 7UDGH QDPH % / ZLQH
- 5HOHYDQW LGHQWLILHG XVHV RI WKH VXEVDQFH RU PL[WXUH DQG XVHV DGylVHG DJDLQV &XUUHQWO\ QR VXFK DSSOLFDWLRQV DUH LGHQWLILHG
- \$SSOLFDWLRQ RI WKH VXEVDQFH & (WKH 2/25/05 .5 ,1.
- 'HWDLOV RI WKH VXSSOLHU RI WKH VDIHW\ GDWD VKHHW
- 0DQXIDFWXUHU 6XSSOLHU
/LIHOLQHV //&
32 %R[
:HVWSRUW &7
7-
- (PHUJHQF\ WHOHSCRQH QXPEHU
7-

+D]DUG V LGHQWLILFDWLRQ

- &ODVVLILFDWLRQ RI WKH VXEVDQFH RU PL[WXUH
7KH SURGXFW LV QRW FODVVLILHG DFFRUGLQJ WR WKH *OREDOO\ +DUPRQL]HG 6\ VWHP *+6
- /DEHO HOHPHQWV
- *+6 ODEHO HOHPHQWV
- +D]DUG SLFWRQ RQV
- 6LJQDO ZRQH
- +D]DUG VWDWHPHQWV
- &ODVVLILFDWLRQ V\ VWHP
- 1)3\$ UDWLQJV VFDOH



+HDOWK
)LUH
5HDFWLYLW\

- +0,6 UDWLQJV VFDOH



+HDOWK
)LUH
5HDFWLYLW\

- 2WKHU KD]DUGV
- 5HVXOWV RI 3%7 DQG Y3Y% DVVHVVPHQW
- 3%7 1RW DSSOLFDEOH
- Y3Y%1RW DSSOLFDEOH

&RPSRVLWLRQ LQIRUPDWLRQ RQ LQJUHGLHQWV

- &KHPLFDO FKDUDFWHUL]DWLRQ 0L[WXUH
0L[WXUH RI WKH IROORZLQJ VXEVDQFHV FRQWDLQLQJ QRQ KD]DUGRXV VXEVDQFHV DQG
- 'HVFULSWLRQV RI WKH VXEVDQFHV OLVWHG EHORZ ZLWK QRQKD]DUGRXV DGGLWLRQV

A'DQJHURXV FRPSRQHQWV

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A 7KH H[DFW SHUFHQW DJH FRQFHQWUDWLRQ RI FRPSRVLWLRQ KDV EHHQ ZLWKKHOG DV D WUDG

)LUVW DLG PHDVXUHV

'HVFULSWLRQ RI ILUVW DLG PHDVXUHV
 *HQHUDO LQIRUPDWLRQ FLDQ PHDVXUHV UHTXLHG
 \$IWHU LQKDOO\ IUVK DLU FRQVXOW GRFWRU LQ FDVH RI FRPSODLQWV
 \$IWHU VNLQ FRQWDOO\ WKH SURGXFW GRHV QRW LUULWDWH WKH VNLQ
 \$IWHU H\H FRQWDOO\ RSHQHG H\H IRU VHYHUDO PLQXWHV XQGHU UXQQQLQJ ZDWHU
 \$IWHU VZDOORZLQSWRPV SHUVLVW FRQVXOW GRFWRU
)RUPDWLRQ IRU GRFWRU
 0RVW LPSRUWDQW V\PSWRPV DQG HIIHFWV ERWK DFXWH DQG GHOD\HG
 1R IXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

Ä ,QGLFDWLRQ RI DQ\ LPPHGLDWH PHGLFDO DWWHQWLRQ DQG VSHFLDO WUHDWPHQW QHHGHG
1R IXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

)LUH ILJKWLQJ PHDVXUHV

- ([WLQJXLVKLQJ PHGLD
- 6XLWDEOH H[WLQJXLVKLQJ PHDVXUHV WKDW VXLW WKH HQYLURQPHQW
- 6SHFLDO KD]DUGV DULVLQJ IURP WKH VXEVWDEW KHUPLFHOXV DQW LQIRUPDWLRQ DYDLODEOH
- \$GYLFH IRU ILUHLJKWHUV
- 3URWHFWLYH HTXLSPHQW PHDVXUHV UHTXLUH

\$FFLGHQWDO UHOHDVH PHDVXUHV

- 3HUVRQDO SUHFDXWLRQV SURWHFWLYH HTXLSPHQW DCDG ISURRWHIQLYSHU FHOHQWLLQV
- (QYLURQPHQWDO SUHFDXWLRQV
- 'LOXWH ZLWK SOHQW\ RI ZDWHU
- 'R QRW DOORZ WR HQWHU VHZHUV VXUIDFH RU JURXQG ZDWHU
- 0HWKRGV DQG PDWHULDO IRU FRQWDLQPHQW DQG FOHDQLQJ XS
- \$EV RUE ZLWK OLTXLG ELQGLQJ PDWHULDO VDQG GLDWRPLWH DFLG ELQGHUV XQLYHUVO
- 5HIHUUQH WR RWKHU VHFWRQV
- 6HH 6HFWLRQ IRU LQIRUPDWLRQ RQ VDIH KDQGOLQJ
- 6HH 6HFWLRQ IRU LQIRUPDWLRQ RQ SHUVRQDO SURWHFWLRQ HTXLSPHQW
- 6HH 6HFWLRQ IRU GLVSRVDO LQIRUPDWLRQ
- 3URWHFWLYH \$FWLRQ &ULWHULD IRU &KHPLFDOV

A 3\$&	7KLUG 3DUW\)RUPXODWLRQ 73		SSP
A 3\$&	7KLUG 3DUW\)RUPXODWLRQ 73		SSP
A 3\$&	7KLUG 3DUW\)RUPXODWLRQ 73		SSP

+DQGOLQJ DQG VWRUDJH

- +DQGOLQJ
- 3UHFDXWLRQV IRU VDIH KDQGOLQJ
- 1R VSHFLDO PHDVXUHV UHTXLUH
- (QVXUH JRRG YHQWLODWLRQ H[KDXVWLRQ DW WKH ZRUNSODFH
- ,QIRUPDWLRQ DERXW SURWHFWLRQ DJDLQVW H[SOVSHFLDO DQGXUHV UHTXLUH
- &RQGLWLRQV IRU VDIH VWRUDJH LQFOXGLQJ DQ\ LQFRPSDWLELOLWLHV
- 6WRUDJH
- 5HTXLUPHQWV WR EH PHW E\ VWRUHURRPIR DQGHUHQSHWDXDUHVPHQW
- ,QIRUPDWLRQ DERXW VWRUDJH LQ RQH FRPPRQ WUHDWPHQW DFLQW
-)XUWKHU LQIRUPDWLRQ DERXW VWRUDJH FRQGLWLRQV
- 6WRUDJH FODVV
- 6SHFLILF HQG XVRI IXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

([SRVXUH FRQWUROV SHUVRQDO SURWHFWLRQ

- \$GGLWLRQDO LQIRUPDWLRQ DERXW GHVLJQ RI WHFKQLKADOGDWWHPHW VHFWRQ
- &RQWURO SDUDPHWHUV
- &RPSRQHQWV ZLWK OLPLW YDOXHV WKDW UHTXLUH PRQLWRULQJ DW WKH ZRUNSODFH
- 7KH IROORZLQJ FRQVWLWXHQW LV WKH RQ\ FRQVWLWXHQW RI WKH SURKIXFW ZKLFK KDV D
- UHFRPPHQGHG H[SRVXUH OLPLW
- \$W WKLV WLPH WKH UHPDLQLQJ FRQVWLWXHQW KDV QR NQRZQ H[SRVXUH OLPLWV

7KLUG 3DUW\)RUPXODWLRQ 73	
:(/ /RQJ WHUP YDOXH PJ Pñ	

- \$GGLWLRQDO LQIRUPDWLRQV WKDW ZHUH YDOLG GXULQJ WKH FUHDWLRQ ZHUH XVHG DV E
- ([SRVXUH FRQWUROV
- 3HUVRQDO SURWHFWLYH HTXLSPHQW
- *HQHUDO SURWHFWLYH DQG K\JLHQLF PHDVXUHV
- 7KH XVXDO SUHFDXWLRQDU\ PHDVXUHV IRU KDQGOLQJ FKHPLFDOV VKRXOG EH IROORZHG
- %UHDWKLQJ HTXLSPHQW UHTXLUH
- 3URWHFWLRQ RI KDQGV
- 7KH JORYH PDWHULDO KDV WR EH LPSHUPHDEOH DQG UHVLVWDQW WR WKH SURGXFW WKH
- SUHSDUDWLRQ
- 'X WR PLVVLQJ WHVWV QR UHFRPPHQGDWLRQ WR WKH JORYH PDWHULDOOKFDQ EH JLYHQ IR
- SUHSDUDWLRQ WKH FKHPLFDO PL[WXUH

&RQWG RI SDJH

&KHPLFDO VWDELOLW\
 7KHUPDO GHFRPSRVLWLRQ FRQGLWLRQV WR EH DYRLGHG
 1R GHFRPSRVLWLRQ LI XVHG DFFRUGLQJ WR VSHFLILFDWLRQV
 3RVVLELOLW\ RI KD]DUGRXXV HODFOWLRQV UHDFWLRQV NQRZQ
 &RQGLWLRQV WR RDXPLG KHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
 ,QFRPSDWLEOH PDWURXIDWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
 +D]DUGRXXV GHFRPSRVLWLRQ SURGXFWV GHFRPSRVLWLRQ SURGXFWV NQRZQ

7R[LFRORJLFDO LQIRUPDWLRQ

- ,QIRUPDWLRQ RQ WR[LFRORJLFDO HIIHFWV
- \$FXWH WR[LFLW\
 · 3ULPDU\ LUULWDQW HIIHFW
 · RQ WKH VNLRLUULWDQW HIIHFW
 · RQ WKH HIR LUULWDWLQJ HIIHFW
 · 6HQVLWL]DWLRQHQVWLWL]LQJ HIIHFWV NQRZQ
 · \$GGLWLRQDO WR[LFRORJLFDO LQIRUPDWLRQ
 7KH SURGXFW VKRZV WKH IROORZLQJ GDQJHUV DFFRUGLQJ WR LQWHUQDOO\ DSSURYHG FDO
 SUHSDUDWLRQV
 7KH SURGXFW LV QRW VXEMHFW WR FODVVLILFDWLRQ DFFRUGLQJ WR LQWHUQDOO\ DSSURY
 SUHSDUDWLRQV
 :KHQ XVHG DQG KDQGOHG DFFRUGLQJ WR VSHFLILFDWLRQV WKH SURGXFW GRHV QRW KDYH
 DFFRUGLQJ WR RXU H[SHULHQFH DQG WKH LQIRUPDWLRQ SURYLGHG WR XV
- &DUFLQRJHQLF FDWHJRULHV

A ,5& ,QWHUQDWLRQDO \$JHQF\ IRU 5HVHDFK RQ &DQFHU
7KLUG 3DUW\)RUPXODWLRQ 73
A 173 1DWLRQDO 7R[LFRORJ\ 3URJUDP
1RQH RI WKH LQJUHGLHQWV LV OLVWHG
A 26+\$ &D 2FFXSDWLRQDO 6DIHW\ +HDOWK \$GPLQLVWUDWLRQ
1RQH RI WKH LQJUHGLHQWV LV OLVWHG

(FRORJLFDO LQIRUPDWLRQ

- 7R[LFLW\
 · \$TXDWLF WR[LFRWXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
 · 3HUVLVWHQFH DQG GHJUDGDWLRQ UHOHYDQW LQIRUPDWLRQ DYDLODEOH
 · %HKDYLRU LQ HQYLURQPHQWDO V\VWHPV
 · %LRDFFXPXODWLYH SRWHQWKBDO UHOHYDQW LQIRUPDWLRQ DYDLODEOH
 · 0RELOLW\ LQ IRUUDWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
 · \$GGLWLRQDO HFRORJLFDO LQIRUPDWLRQ
 · *HQHUDO QRWHV
 :DWHU KD]DUG FODVV 6HOI DVVHVVPHQW VOLJKWO\ KD]DUGRXXV IRU ZDWHU
 'R QRW DOORZ XQGLOXWHG SURGXFW RU ODUJH TXDQWLWLHV RI LW WR UHDFK JURXQG ZDV
 VHZDJH V\VWHP
 · 5HVXOWV RI 3%7 DQG Y3Y% DVVHVVPHQW
 · 3%71RW DSSOLFDEOH
 · Y3Y%1RW DSSOLFDEOH
 · 2WKHU DGYHUVH HRIHFWWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

'LVS RVDO FRQVLGHUDWLRQV

- :DVWH WUHDWPHQW PHWKRGV
- 5HFRPPHQGDWLRQV IRU TXDQWLWLHV FDQ EH GLVSRVHG RI ZLWK KRXXVKRQG ZDVWH
- 8QFOHDQHG SDFNDJLQJV
- 5HFRPPHQGDWLRQV IRU RVDO PXVW EH PDGH DFFRUGLQJ WR RIILFLDO UHJXODWLRQV
- 5HFRPPHQGHG FOHDQV LQVWUXFWHG HFHVVDU\ ZLWK FOHDQVLQJ DJHQWV

7UDQVSRUW LQIRUPDWLRQ

81 1XPEHU	
'27 \$'5 ,0'* ,7\$	QRW DSSOLFDEOH
81 SURSHU VKLSSLQJ QDPH	
'27 \$'5 ,0'* ,7\$	QRW DSSOLFDEOH
7UDQVSRUW KD]DUG FODVV HV	
'27 \$'5 \$'1 ,0'* ,7\$	QRW DSSOLFDEOH
&ODVV	QRW DSSOLFDEOH

&RQWG RQ SDJH

&RQWG RI SDJH

3DFNLQJ JURXS	QRW DSSOLFDEOH
'27 '\$5 ,0' * , \$7\$	
Ã (QYLURQPHQWDO KD]DUGV	1RW DSSOLFDEOH
Ã 6SHFLDO SUHFDXWLRQV IRU XVHU	1RW DSSOLFDEOH
Ã 7UDQVSRUW LQ EXON DFFRUGLQJ WR \$QQH , , RI	
0\$532/ DQG WKH ,%& &RGH	1RW DSSOLFDEOH
Ã 81 0RGHO 5HJXODWLRQ	QRW DSSOLFDEOH

5HJXODWRU\ LQIRUPDWLRQ

6DIHW\ KHDOWK DQG HQYLURQPHQWDO UHJXODWLRQV OHJLVODWLRQ VSHFLILF IRU WKH VX
 6DUD

Ã 6HFWLRQ H[WUHPHO\ KD]DUGRXV VXEVWDQFHV	
1RQH RI WKH LQJUHGLHQW LV OLVWHG	
Ã 6HFWLRQ 6SHFLILF WR[LF FKHPDFDO OLVWLQJV	
1RQH RI WKH LQJUHGLHQWV LV OLVWHG	
Ã 76&\$ 7R[LF 6XEVWDQFHV &RQWURO \$FW	
\$OO FRPSRQHQWV KDYH WKH YDOXH \$&7,9(
Ã +D]DUGRXV \$LU 3ROOXWDQWV	
1RQH RI WKH LQJUHGLHQWV LV OLVWHG	
3URSRVLWLRQ	
Ã &KHPLFDOV NQRZQ WR FDXVH FDQFHU	
1RQH RI WKH LQJUHGLHQWV LV OLVWHG	
Ã &KHPLFDOV NQRZQ WR FDXVH UHSURGXFWLYH WR[LFLW\ IRU IHPDOHV	
1RQH RI WKH LQJUHGLHQWV LV OLVWHG	
Ã &KHPLFDOV NQRZQ WR FDXVH UHSURGXFWLYH WR[LFLW\ IRU PDOHV	
1RQH RI WKH LQJUHGLHQWV LV OLVWHG	
Ã &KHPLFDOV NQRZQ WR FDXVH GHYHORSPHQWDO WR[LFLW\	
1RQH RI WKH LQJUHGLHQWV LV OLVWHG	
'6/ '1'6/ &DQDQDO LQJUHGLHQWV DUH OLVWHG	
&DQFHURJHQLW\ FDWHJRULHV	
Ã (3\$ (QYLURQPHQWDO 3URWHFWLRQ \$JHQF\	
1RQH RI WKH LQJUHGLHQWV LV OLVWHG	
Ã 7/9 7KUHVKROG /LPLW 9DOXH	
1RQH RI WKH LQJUHGLHQWV LV OLVWHG	
Ã 0\$. *HUPDQ 0D[LPXP :RUNSODFH &RQFHQWUDWLRQ	
1RQH RI WKH LQJUHGLHQWV LV OLVWHG	
Ã 1,26+ &D 1DWLRQDO ,QVWLWXWH IRU 2FFXSDWLRQDO 6DIHW\ DQG +HDOWK	
1RQH RI WKH LQJUHGLHQWV LV OLVWHG	

*+6 ODEHO HOHQWRQHV
 +D]DUG SLFWRQDQV
 6LJQDO ZRQGH
 +D]DUG VWDWHPHQWV
 1DWLRQDO UHJXODWLRQV
 7HFKQLFDO LQVWUXFWLRQV DLU
 &ODVV 6KDUH LQ
 1.

:DWHU KD]DUG FODVV 6HOI DVVHVVPHQW VOLJKWO\ KD]DUGRXV IRU ZDW
 &KHPLFDO VDIHW\ DVVHVVPHQWDO 6DIHW\ \$VVHVVPHQW KDV QRW EHHQ FDUULHG RXW

2WKHU LQIRUPDWLRQ

7KLV LQIRUPDWLRQ LV EDVHG RQ RXU SUHVHQW NQRZOHGJH +RZHYHU WKLV VKDOO QRW F
 IRU DQ\ VSHFLILF SURGXFW IHDWXUHV DQG VKDOO QRW HVWDEOLVK D OHJDOO\ YDOLG FRQ

- &RQWDFW
- 'DWH RI SUHSDUDWLRQ ODVV UHYLVLRQ
- \$EEUHYLDWLRQV DQG DFURQ\PV
- \$'5 \$FFRUG UHODWLI DX WUDQVSRUW LQWHUQDWLRQDO GHV PDUFKDQGLVHV GDQJHUHVHV SDU URXWH (XURSHDQ \$JHH
- &DUULDJH RI 'DQJHURXV *RRG E\ 5RDG
- ,0' ,QWHUQDWLRQDO 0DULWLP &RGH IRU 'DQJHURXV *RRG
- '27 86 'HSDUVPHQW RI 7UDQVSRUWDWLRQ
- ,7\$,QWHUQDWLRQDO \$LU 7UDQVSRUW \$VVRFLDWLRQ
- (,1&6 (XURSHDQ ,QYHQWRU\ RI (LVWLQJ &RPPHULFDO 6XEVWDQFHV

&RQWG RQ SDJH

6DIHW\ 'DWD 6KHHW
DFF WR 26+\$ +&6

3DJH
3ULQWLQJ GDWH
5HYLHZHG RQ

&RQWG RI SDJH

(/,1&6 (XURSHDQ /LVW RI 1RWLILHG &KHPLFDO 6XEVDQFHV
&\$6 &KHPLFDO SEVWUDFWV 6HUYLEH GLYLVLRLQ RI WKH \$PHULFDQ &KHPLFDO 6RFLHW\
1)3\$ 1DWLRQDO)LUH 3URWHFWLRQ \$VVRFLDWLRQ 86\$
+0,6 +DJDUGRXV 0DWHULDOV ,GHQWLILFDWLRQ 6\ VWHP 86\$
3%7 3HUVLVWHQW %LRDFFXPXODWLYH DQG 7R[L
Y3Y% YHU\ 3HUVLVWHQW DQG YHU\ %LRDFFXPXODWLYH
1,26+ 1DWLRQDO ,QVWLWXWH IRU 2FFXSDWLRQDO 6DIHW\
26+\$ 2FFXSDWLRQDO 6DIHW\ +HDOWK
7/9 7KUHVKROG /LPLW 9DOXH
3/ 3HUPLVVLEOH ([SRVXUH /LPLW
5/ 5HFRPPHQGHG ([SRVXUH /LPLW
Â 'DWD FRPSDUHG WR WKH SUHYLRXV YHUVLRQ DOWHUHG

Safety Data Sheet

Printing date 06/06/2024 acc. to OSHA

HCS Reviewed on 06/06/2024

1 Identification

- **Product identifier**
- **Trade name:** SPF 6340.8 pink Floral Focus Gardenia & Grapefruit
- **Relevant identified uses of the substance or mixture and uses advised against**
Currently no such applications are identified.
- **Application of the substance / the mixture** Pigmented highlighter ink
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SHANGHAI DOKUMENTAL INK Co. Ltd.
No.18-3, Maojia Road
Luodian Town, Baoshan District
Shanghai 201908 , P.R. China
Tel.: 86-21-66864551 / 66864542
- **Information department:**
Ms. Cindy Song
Email: cindy.song@dokumental.cn
- **Emergency telephone number:**
Ms. Cindy Song
Tel.: mobile +86-13764206454
Email: cindy.song@dokumental.cn

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Trade name: SPF 6340.8 pink Floral

Focus Gardenia & Grapefruit

2 Hazard(s) identification

Classification of the substance or mixture



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.



GHS07

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Aquatic Acute 3

H402 Harmful to aquatic life.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS07



GHS08

Signal word Warning

Hazard-determining components of labeling:

ethanediol

3,7-Dimethyl-1,6-nonadien-3-ol

Hazard statements

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302+P352 If on skin: Wash with plenty of water.

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

US

Trade name: SPF 6340.8 pink Floral

Focus Gardenia & Grapefruit



· **vPvB:** Not applicable.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

Health = 0

Fire = 1

Reactivity =

0 · **HMIS-ratings (scale 0 - 4)**

Health = 1 Fire = 1

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB**

assessment · **PBT:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

Mixture of the following substances, containing non-hazardous substances and colouring agents. · **Description:** Mixture of the substances listed below with nonhazardous additions.

This product is a Trade Secret

4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult

doctor. · **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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HCS Reviewed on 06/06/2024

Trade name: *SPF 6340.8 pink Floral*Focus *Gardenia & Grapefruit***5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective clothing.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

Trade name: *SPF 6340.8 pink Floral*Focus *Gardenia & Grapefruit*

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
 The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
 At this time, the other constituents have no known exposure limits.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Store protective clothing separately.
- **Breathing equipment:**
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

- **Material of gloves**
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber, NBR
- **Penetration time of glove material**
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**

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Trade name: SPF 6340.8 pink Floral

Focus Gardenia & Grapefruit

9 Physical and chemical properties

· Information on basic physical and chemical properties · General Information · Appearance:

Form:	Fluid
Color:	According to product specification
Odor:	Product specific
Odor threshold:	Not determined.

· Important information on protection of health and environment, and on safety.

-

· pH-value at 20 °C (68 °F):

7

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)

· Flash point:

>199 °C (>390.2 °F)

· Flammability (solid, gaseous):

Not applicable.

· Auto igniting:

400 °C (752 °F)

· Decomposition temperature:

Not determined.

· Ignition temperature:

Product is not selfigniting.

· Danger of explosion:

Not determined.

· Explosion limits:

Lower:	2.6 Vol %
Upper:	11.3 Vol %

· Vapor pressure at 20 °C (68 °F):

23 hPa (17.251 mm Hg)

· Vapor pressure at 50 °C (122 °F):

~0.015 hPa (~0.011 mm Hg)

· Density at 20 °C (68 °F):

 1 g/cm³ (8.3 lbs/gal)

· Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined.

· Solubility in / Miscibility with

Water:	Fully miscible.
--------	-----------------

· Partition coefficient (n-octanol/water):

Not determined.

· Viscosity:

Dynamic at 20 °C (68 °F):	9 mPas
Kinematic:	Not determined.

· Solvent content:

Organic solvents:	Not determined
Water:	Not determined

Solids content: Not determined

· Other information

The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

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Trade name: SPF 6340.8 pink Floral

US (Contd. on page 5)

Focus Gardenia & Grapefruit

(Contd. of page 4)

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant
- **Carcinogenic categories**

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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Focus Gardenia & Grapefruit

14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	not applicable
· UN proper shipping name	
· DOT, ADR, IMDG, IATA	not applicable
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	not applicable
· Packing group	
· DOT, ADR, IMDG, IATA	not applicable
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	not applicable

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HCS Reviewed on 06/06/2024

 Trade name: *SPF 6340.8 pink Floral*

Focus Gardenia & Grapefruit

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

- Section 355 (extremely hazardous substances):

None of the ingredient is listed.

- TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

- Hazardous Air Pollutants

- Proposition 65

- Chemicals known to cause cancer:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

- DSL/NDSL (Canada) All ingredients are listed

- Cancerogenity categories

- EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value)

- MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms

- Signal word Warning

- Hazard-determining components of labeling:

ethanediol

3,7-Dimethyl-1,6-nonadien-3-ol

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Trade name: **SPF 6340.8 pink Floral**

Focus **Gardenia & Grapefruit**

- **Hazard statements**
- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
NK	10-<25

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Contact:**
- **Date of preparation / last revision**
06/06/2024
- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical

Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Sensitization - Skin 1: Skin sensitisation - Category 1 Specific Target Organ Toxicity - Repeated Exposure 2:

Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

- *** Data compared to the previous version altered.**

Å Y3Y%1RW DSSOLFDEOH

&RQWG RI SDJH

&RPSRVLWLRQ LQIRUPDWLRQ RQ LQJUHGLHQWV

- &KHPLFDO FKDUDFWHUL]DWLRQ 0L[WXUHV
- 0L[WXUH RI WKH IROORZLQJ VXEVDQFHV FRQWDLQLQJ QRQ KD]DUGRXV VXEVDQFHV DQG
- 'HVFULSWLRQ[WXUH RI WKH VXEVDQFHV OLVWHG EHORZ ZLWK QRQKD]DUGRXV DGLWLRQV

A'DQJHURXV FRPSRQHQWV

7KLUG 3DUW\)RUPXODWLRQ 73

Å 7KH H[DFW SHUFHQWDJH FRQFHQWUDWLRQ RI FRPSRVLWLRQ KDV EHHQ ZLWKKHOG DV D WUDG

)LUVW DLG PHDVXUHV

- 'HVFULSWLRQ RI ILUVW DLG PHDVXUHV
- \$IWHU LQKDODWLRQ
- 6XSSO\ IUHVK DLU DQG WR EH VXUH FDOO IRU D GRFWRU
- ,Q FDVH RI XQFRQVFLRXVQHVV SODFH SDWLHQW VWDEO\ LQ VLGH SRVLWLRQ IRU WUDQVSRU
- \$IWHU VNLQ FRQVDFW\ ZDVK ZLWK ZDWHU DQG VRDS DQG ULQVH WKRURXJKO\
- \$IWHU H\H FRQVDFW\ RSHQHG H\H IRU VHYHUDO PLQXWHV XQGHU UXQQQLQJ ZDWHU
- \$IWHU VZDOORZLQJ PSWRPV SHUVLVW FRQVXOW GRFWRU
- ,QIRUPDWLRQ IRU GRFWRU
- 0RVW LPSRUWDQW V\PSWRPV DQG HIIHFWV ERWK DFXWH DQG GHOD\HG
- 1R IXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH
- ,QGLFDWLRQ RI DQ\ LPPHGLDWH PHGLFDO DWWHQWLRQ DQG VSHFLDO WUHDWPHQW QHHGHG
- 1R IXUWKHU UHOHYDQW LQIRUPDWLRQ DYDLODEOH

)LUH ILJKWLQJ PHDVXUHV

- ([WLQJXLVKLQJ PHGLD
- 6XLWDEOH H[WLQJXLVKLQJ PHDVXUHV WKDW VXLW WKH HQYLURQPHQW
- 6SHFLDO KD]DUGV DULVLQJ IURP WKH VXEVDQFHV RRUPLHQWV QW LQIRUPDWLRQ DYDLODEOH
- \$GYLFH IRU ILUHILJKWHUV
- 3URWHFWLYH HTXLSPHQW LDO PHDVXUHV UHTXLUHG

\$FFLGHQWDO UHOHDVH PHDVXUHV

- 3HUVRQDO SUHFDXWLRQV SURWHFWLYH HTXLSPHQW DCCG HSRUWHIHWL YSHU FFHRQWLLQV
- (QYLURQPHQWDO SUHFDXWLRQV
- 'LOXWH ZLWK SOHQW\ RI ZDWHU
- 'R QRW DOORZ WR HQWHU VHZHUV VXUIDFH RU JURXQG ZDWHU
- 0HWKRGV DQG PDWHULDO IRU FRQWDLQPHQW DQG FOHDQLQJ XS
- \$EV RUE ZLWK OLTXLG ELQGLQJ PDWHULDO VDQG GLDWRPLWH DFLG ELQGHUV XQLYHUVD
- 'LVS RVH FRQWDLQDWHG PDWHULDO DV ZDVWH DFFRUGLQJ WR VHFWRQ
- (QVXUH DGHTXDWH YHQWLODWLRQ
- 5HIHQHFH WR RWKHU VHFWRQV
- 6HH 6HFWLRQ IRU LQIRUPDWLRQ RQ VDIH KDQGOLQJ
- 6HH 6HFWLRQ IRU LQIRUPDWLRQ RQ SHUVRQDO SURWHFWLRQ HTXLSPHQW
- 6HH 6HFWLRQ IRU GLVSRVDO LQIRUPDWLRQ
- 3URWHFWLYH \$FWLRQ &ULWHULD IRU &KHPLFDOV

A 3\$&
1RQH RI WKH LQJUHGLHQWV LV OLVWHG
A 3\$&
1RQH RI WKH LQJUHGLHQWV LV OLVWHG
A 3\$&
1RQH RI WKH LQJUHGLHQWV LV OLVWHG

+DQGOLQJ DQG VWRUDJH

- +DQGOLQJ
- 3UHFDXWLRQV IRU VDIH KDQGOLQJ
- (QVXUH JRRG YHQWLODWLRQ H[KDXVWLRQ DW WKH ZRUNSODFH
- 3UH YHQW IRUPDWLRQ RI DHURVROV
- ,QIRUPDWLRQ DERXW SURWHFWLRQ DJDLQVW H[SRVHWLQJ DQG VXEVDQFHV UHTXLUHG
- &RQGLWLRQV IRU VDIH VWRUDJH LQFOXGLQJ DQ\ LQFRPSDWLELOLWLHV
- 6WRUDJH
- 5HTXLUHPHQWV WR EH PHW E\ VWRUHURRPV DCSG FULFOL SWDXOHVPHQWV
- ,QIRUPDWLRQ DERXW VWRUDJH LQ RQH FRPPRQ WUHDWPHQW DFLWLW\
-)XUWKHU LQIRUPDWLRQ DERXW VWRUDJH FRQGLWLRQV

&RQWG RQ SDJH

