

SAFETY DATA SHEET

Issuing Date 13-Jun-2019

Revision Date 11-Jun-2019

Revision Number 1

NGHS / English



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1. IDENTIFICATION

Product identifier

Product Name Crayon

Other means of identification

Product Code(s) 1525477

Recommended use of the chemical and restrictions on use

Recommended Use Cosmetics

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification Horizon Group USA

Address 45 Technology Drive
Warren
NJ
07059
US

Telephone Phone:908-810-1111

E-mail cgulbrandsen@hgusa.com

Emergency telephone number

Company Emergency Phone Number 862-216-0842

2. HAZARDS IDENTIFICATION

Classification

Not classified.

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



Appearance Solid

Physical state Solid

Odor Odorless

GHS Label elements, including precautionary statements**Hazard statements**

Not classified.

Other information

Unknown acute toxicity 83 % of the mixture consists of ingredient(s) of unknown toxicity
 40 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
 63 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
 83 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 83 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
 83 % 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)
Stearic acid	57-11-4	11	-	-
Paraffin	8002-74-2	9	-	-
Ci 77891	13463-67-7	1	-	-

4. FIRST AID MEASURES**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 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
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Stearic acid 57-11-4	TWA: 10 mg/m ³ inhalable particulate matter TWA: 3 mg/m ³ respirable particulate matter		-	
Paraffin 8002-74-2	TWA: 2 mg/m ³	(vacated) TWA: 2 mg/m ³	TWA: 2 mg/m ³	
Ci 77891 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³ TWA: 2.4 mg/m ³ CIB 63 fine TWA: 0.3 mg/m ³ CIB 63 ultrafine, including engineered nanoscale	
Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Paraffin 8002-74-2	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³
Ci 77891 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 10 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

Physical and Chemical Properties

Physical state Solid
Appearance Solid
Odor Odorless
Color No information available
Odor Threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	No data available	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air		None known	
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	No data available	None known
Water Solubility	Immiscible in water	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water ⁰		
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.

Information on toxicological effects

Symptoms	No information available.
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Numerical measures of toxicity**Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 12,142.90 mg/kg
ATEmix (dermal) 16,821.50 mg/kg

Unknown acute toxicity 83 % of the mixture consists of ingredient(s) of unknown toxicity
40 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
63 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
83 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
83 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
83 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Stearic acid	= 4600 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Paraffin	> 5000 mg/kg (Rat)	> 3600 mg/kg (Rabbit)	-
Ci 77891	> 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 Classification based on data available for ingredients. This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Ci 77891 13463-67-7	-	Group 2B	-	X

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

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.

Persistence and Degradability No information available.

Bioaccumulation There is no data for this product.

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.

California Waste Codes 331

14. TRANSPORT INFORMATION

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

TDG Not regulated

MEX Not regulated

ICAO Not regulated

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

IMDG/IMO
Hazard Class Not regulated
 N/A

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

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

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements 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 contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Ci 77891 - 13463-67-7	carcinogen, 9/2/2011 (airborne, unbound particles of respirable size)

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
Paraffin 8002-74-2	X	X	X		
Ci 77891 13463-67-7	X	X	X		

16. OTHER INFORMATION

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

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

Issuing Date 13-Jun-2019

Revision Date 11-Jun-2019

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

Safety Data Sheet (SDS) Report

Applicant: CHINA TEEMARK INDUSTRIAL LIMITED.

No.2,Tianzhushan Rd., Longwan District, Wenzhen, Zhejiang Province,China

SDS number: SHAH01041461

Issue Date: 2018-12-13

Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name : ASDA PAINT PALETTE

Physical State : Liquid

Data Received : Dec 07, 2018

Data Reviewed : Dec 13, 2018

Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated according to requirements of Regulation (EC) No 1907/2006 (REACH) with its amendment Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008, for details please refer to attached pages.

Authorized By:

On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai



Anna Wang
Regulatory Consultant

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Safety Data Sheet

WATER COLOR INK FOR MARKERS AND STAMPERS (GREEN,BLUE,BROWN,YELLOW,SKY BLUE,LIGHT GREEN,ORANGE,RED,PURPLE,BLACK,PINK,GREY,FLESH,VIOLET,BLUE-GREEN(TEAL),LIGHT PURPLE,LIGHT BLUE,ROSE RED)

CHINA TEEMARK INDUSTRIAL LIMITED.

SDS number: **SHAH01041461**

Version No:1.0

Issue Date:13/12/2018

According to Regulation (EC) No 1907/2006(REACH) with its amendment Commission Regulation (EU) 2015/830

REACH.GBR.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product Identifier

Product name	WATER COLOR INK FOR MARKERS AND STAMPERS (GREEN,BLUE,BROWN,YELLOW,SKY BLUE,LIGHT GREEN,ORANGE,RED,PURPLE,BLACK,PINK,GREY,FLESH,VIOLET,BLUE-GREEN(TEAL),LIGHT PURPLE,LIGHT BLUE,ROSE RED)
Other means of identification	Not Available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	INK IN MARKER FOR WRITING
Uses advised against	Not Applicable

1.3. Details of the supplier of the safety data sheet

Supplier name	CHINA TEEMARK INDUSTRIAL LIMITED.
Address	No.2,Tianzhushan Rd., Longwan District, Wenzhen, Zhejiang Province,China
Telephone	0086-577-86551318 0086-13968789688
Fax	0086-577-86558369
Emergency telephone	0086-577-86551318(9:00-17:00)
Email	
Importer name	
Address	
Telephone	
Email	

1.4. Emergency telephone number

Association / Organisation	
Emergency telephone numbers	0044 1924 900319 (9:00-17:00)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Considered a hazardous mixture according to Reg. (EC) No 1272/2008 and their amendments. Not classified as Dangerous Goods for transport purposes.

Classification according to regulation (EC) No 1272/2008 [CLP]	Not Classified
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2.2. Label elements

Hazard pictogram(s)	Not Applicable
SIGNAL WORD	NOT APPLICABLE

Hazard statement(s)

Not Applicable

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Continued...

**WATER COLOR INK FOR MARKERS AND STAMPERS (GREEN,BLUE,BROWN,YELLOW,SKY
BLUE,LIGHT GREEN,ORANGE,RED,PURPLE,BLACK,PINK,GREY,FLESH,VIOLET,BLUE-
GREEN(TEAL),LIGHT PURPLE,LIGHT BLUE,ROSE RED)**

Precautionary statement(s) Disposal

Not Applicable

2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**3.1.Substances**

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
1.7732-18-5 2.231-791-2 3.Not Available 4.Not Available	75-90	<u>water</u>	Not Classified
1.56-81-5 2.200-289-5 3.Not Available 4.Not Available	10	<u>glycerin</u>	Not Classified
1.16423-68-0 2.240-474-8 3.Not Available 4.Not Available	0-7	<u>Erythrosine B</u>	Chronic Aquatic Hazard Category 3; H412
1.1934-21-0 2.217-699-5 3.Not Available 4.Not Available	0-4	<u>Tartrazine</u>	Not Classified
1.3844-45-9 2.223-339-8 3.Not Available 4.Not Available	0-3.5	<u>Brilliant blue FCF</u>	Not Classified
1.2611-82-7 2.220-036-2 3.Not Available 4.Not Available	0-0.2	<u>C.I. Acid Red 18</u>	Not Classified
1.532-32-1 2.208-534-8 3.Not Available 4.Not Available	0.1	<u>sodium benzoate</u>	Eye Irritation Category 2; H319

SECTION 4 FIRST AID MEASURES**4.1. Description of first aid measures**

Eye Contact	If this product comes in contact with eyes: <ul style="list-style-type: none"> ▶ Wash out immediately with water. ▶ If irritation continues, seek medical attention. ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: <ul style="list-style-type: none"> ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.
Inhalation	<ul style="list-style-type: none"> ▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ▶ Other measures are usually unnecessary.
Ingestion	<ul style="list-style-type: none"> ▶ Immediately give a glass of water. ▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES**5.1. Extinguishing media**

- ▶ Foam.
- ▶ Dry chemical powder.

Continued...

**WATER COLOR INK FOR MARKERS AND STAMPERS (GREEN,BLUE,BROWN,YELLOW,SKY
BLUE,LIGHT GREEN,ORANGE,RED,PURPLE,BLACK,PINK,GREY,FLESH,VIOLET,BLUE-
GREEN(TEAL),LIGHT PURPLE,LIGHT BLUE,ROSE RED)**

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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5.3. Advice for firefighters

Fire Fighting	<ul style="list-style-type: none"> ▶ Alert Fire Brigade and tell them location and nature of hazard. ▶ Wear full body protective clothing with breathing apparatus.
Fire/Explosion Hazard	<ul style="list-style-type: none"> ▶ Combustible. ▶ Slight fire hazard when exposed to heat or flame.

SECTION 6 ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	<ul style="list-style-type: none"> ▶ Remove all ignition sources. ▶ Clean up all spills immediately.
Major Spills	<ul style="list-style-type: none"> ▶ Clear area of personnel and move upwind.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE**7.1. Precautions for safe handling**

Safe handling	<ul style="list-style-type: none"> ▶ Limit all unnecessary personal contact. ▶ Wear protective clothing when risk of exposure occurs.
Fire and explosion protection	See section 5
Other information	<ul style="list-style-type: none"> ▶ Store in original containers. ▶ Keep containers securely sealed.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul style="list-style-type: none"> ▶ PP barrel. ▶ Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known

7.3. Specific end use(s)

See section 1.2

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1. Control parameters****DERIVED NO EFFECT LEVEL (DNEL)**

Not Available

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available


OCCUPATIONAL EXPOSURE LIMITS (OEL)**INGREDIENT DATA**

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
UK Workplace Exposure Limits (WELs)	glycerin	Glycerol, mist	10 mg/m3	Not Available	Not Available	Not Available

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
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WATER COLOR INK FOR MARKERS AND STAMPERS (GREEN,BLUE,BROWN,YELLOW,SKY BLUE,LIGHT GREEN,ORANGE,RED,PURPLE,BLACK,PINK,GREY,FLESH,VIOLET,BLUE-GREEN(TEAL),LIGHT PURPLE,LIGHT BLUE,ROSE RED)

8.2.2. Personal protection	
Eye and face protection	<ul style="list-style-type: none"> ▶ Safety glasses with side shields ▶ Chemical goggles. ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.
Skin protection	See Hand protection below
Hands/feet protection	<p>Wear general protective gloves, eg. light weight rubber gloves.</p> <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical 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.</p>
Body protection	See Other protection below
Other protection	<p>No special equipment needed when handling small quantities.</p> <p>OTHERWISE:</p> <ul style="list-style-type: none"> ▶ Overalls.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	GREEN,BLUE,BROWN,YELLOW,SKY BLUE,LIGHT GREEN,ORANGE,RED,PURPLE,BLACK,PINK,GREY,FLESH,VIOLET,BLUE-GREEN(TEAL),LIGHT PURPLE,LIGHT BLUE,ROSE RED LIQUID		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Odorless	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	5.0-10.0	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Available
Flash point (°C)	>93	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Flammable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

9.2. Other information

Not Available

SECTION 10 STABILITY AND REACTIVITY

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Continued...

WATER COLOR INK FOR MARKERS AND STAMPERS (GREEN,BLUE,BROWN,YELLOW,SKY BLUE,LIGHT GREEN,ORANGE,RED,PURPLE,BLACK,PINK,GREY,FLESH,VIOLET,BLUE-GREEN(TEAL),LIGHT PURPLE,LIGHT BLUE,ROSE RED)

Acute Toxicity	glycerin	
	Oral (guinea pig) LD50: 7750 mg/kg ^[2]	
	Oral (mouse) LD50: 4090 mg/kg ^[2]	
	Oral (rat) LD50: 12600 mg/kg ^[2]	
	Erythrosine B	
	Oral (rat) LD50: 2891 mg/kg ^[2]	
	Tartrazine	
	Oral (mouse) LD50: 12750 mg/kg ^[2]	
	Oral (rat) LD50: >2000 mg/kg ^[2]	
	C.I. Acid Red 18	
	Oral (mouse) LD50: >10000 mg/kg ^[2]	
	Oral (rat) LD50: >10000 mg/kg ^[2]	
	Oral (rat) LD50: >8000 mg/kg ^[2]	
	sodium benzoate	
	Oral (rat) LD50: 4070 mg/kg ^[2]	
Skin corrosion/irritation	No skin irritation	
Serious eye damage/irritation	No serious eye irritation	
Respiratory or skin sensitisation	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	CAS number	IARC group
	3844-45-9	3
Reproductive toxicity	No data available	
STOT-single exposure	No data available	
STOT-repeated exposure	No data available	
Aspiration hazard	No data available	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances	

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

WATER COLOR INK FOR MARKERS AND STAMPERS (GREEN,BLUE,BROWN,YELLOW,SKY BLUE,LIGHT GREEN,ORANGE,RED,PURPLE,BLACK,PINK,GREY,FLESH,VIOLET,BLUE-GREEN(TEAL),LIGHT PURPLE,LIGHT BLUE,ROSE RED)	No data available for the mixture
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12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW
glycerin	LOW	LOW
Tartrazine	HIGH	HIGH
C.I. Acid Red 18	HIGH	HIGH

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)
glycerin	LOW (LogKOW = -1.76)

**WATER COLOR INK FOR MARKERS AND STAMPERS (GREEN,BLUE,BROWN,YELLOW,SKY
BLUE,LIGHT GREEN,ORANGE,RED,PURPLE,BLACK,PINK,GREY,FLESH,VIOLET,BLUE-
GREEN(TEAL),LIGHT PURPLE,LIGHT BLUE,ROSE RED)**

Tartrazine	LOW (BCF = 3)
C.I. Acid Red 18	LOW (LogKOW = 1.6301)

12.4. Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)
glycerin	HIGH (KOC = 1)
Tartrazine	LOW (KOC = 79.38)
C.I. Acid Red 18	LOW (KOC = 1572000)

12.5.Results of PBT and vPvB assessment

	P	B	T
Relevant available data	Not Applicable	Not Applicable	Not Applicable
PBT Criteria fulfilled?	Not Applicable	Not Applicable	Not Applicable

12.6. Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. <ul style="list-style-type: none"> ▶ DO NOT allow wash water from cleaning or process equipment to enter drains. ▶ It may be necessary to collect all wash water for treatment before disposal. ▶ Recycle wherever possible or consult manufacturer for recycling options. ▶ Consult State Land Waste Management Authority for disposal.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 TRANSPORT INFORMATION**Labels Required**

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	Class : Not Applicable Subrisk : Not Applicable
14.4. Packing group	Not Applicable
14.5. Environmental hazard	Not Applicable
14.6. Special precautions for user	Hazard identification (Kemler) : Not Applicable Classification code : Not Applicable Hazard Label : Not Applicable Special provisions : Not Applicable Limited quantity : Not Applicable

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	ICAO/IATA Class : Not Applicable ICAO / IATA Subrisk : Not Applicable ERG Code : Not Applicable
14.4. Packing group	Not Applicable
14.5. Environmental hazard	Not Applicable

**WATER COLOR INK FOR MARKERS AND STAMPERS (GREEN,BLUE,BROWN,YELLOW,SKY
BLUE,LIGHT GREEN,ORANGE,RED,PURPLE,BLACK,PINK,GREY,FLESH,VIOLET,BLUE-
GREEN(TEAL),LIGHT PURPLE,LIGHT BLUE,ROSE RED)**

14.6. Special precautions for user	Special provisions	Not Applicable
	Cargo Only Packing Instructions	Not Applicable
	Cargo Only Maximum Qty / Pack	Not Applicable
	Passenger and Cargo Packing Instructions	Not Applicable
	Passenger and Cargo Maximum Qty / Pack	Not Applicable
	Passenger and Cargo Limited Quantity Packing Instructions	Not Applicable
	Passenger and Cargo Limited Maximum Qty / Pack	Not Applicable

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	IMDG Class : Not Applicable
	IMDG Subrisk : Not Applicable
14.4. Packing group	Not Applicable
14.5. Environmental hazard	Not Applicable
14.6. Special precautions for user	EMS Number : Not Applicable
	Special provisions : Not Applicable
	Limited Quantities : Not Applicable

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	Not Applicable : Not Applicable
14.4. Packing group	Not Applicable
14.5. Environmental hazard	Not Applicable
14.6. Special precautions for user	Classification code : Not Applicable
	Special provisions : Not Applicable
	Limited quantity : Not Applicable
	Equipment required : Not Applicable
	Fire cones number : Not Applicable

14.7. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU REACH Regulation (EC) No 1907/2006 - Annex IV - Exemptions from the Obligation to Register in Accordance with Article 2(7)(a) (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

European Customs Inventory of Chemical Substances ECICS (English)

GLYCERIN(56-81-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

UK Workplace Exposure Limits (WELs)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

ERYTHROSINE B(16423-68-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

TARTRAZINE(1934-21-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

BRILLIANT BLUE FCF(3844-45-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

C.I. ACID RED 18(2611-82-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Continued...

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GREEN(TEAL),LIGHT PURPLE,LIGHT BLUE,ROSE RED)**

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)
(English)

SODIUM BENZOATE(532-32-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)
(English)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2015/830; Regulation (EC) No 1272/2008 as updated through ATPs.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16 OTHER INFORMATION

Full text Risk and Hazard codes

H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average

PC—STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit,

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index



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SECTION 1 - Identification

SECTION 1 - Identification

Manufacturer's Name : New Leader Battery Ltd.

Nom du fabricant : New Leader Battery Ltd.

Emergency & Information Phone No : 852 - 2790 6280

Numéro de téléphone d'urgence et d'information : 852 - 2790 6280

Address : Rm A, 4/F, Block 1, Camelpaint Building, 62 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong.

Adresse : Rm A, 4/F, Block 1, Camelpaint Building, 62 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong.

Product Name: Alkaline Manganese Battery (Mercury Free)

Nom du produit: Pile alcaline au manganèse (sans mercure)

Model no. / modèle n°

LR521, LR621, LR736, LR41, LR626, LR754, LR921, LR927, LR1120, LR1130, LR721,
LR43, LR44, LR932, LR732

Recommended use of the chemical and restrictions on use:

Utilisation recommandée du produit chimique et restrictions d'utilisation:

Application of the substance / the preparation : Electronic products

Application de la substance / de la préparation : Produits électroniques

Details of the supplier of the safety data sheet

Coordonnées du fournisseur de la fiche de données de sécurité

Email : newleader@newleader.com.hk

Messagerie électronique: newleader@newleader.com.hk

Other US contact point : Not available

Autre point de contact américain : Non disponible

Further information obtainable from: New Leader Battery Limited

Informations complémentaires disponibles auprès de : New Leader Battery Limited

Emergency telephone number: USA Poison Center Tel : +1 800 222 1222

Numéro de téléphone d'urgence: USA Poison Center Tel: +1 800 222 1222

Remark:

This sample is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference Only

Cet échantillon est susceptible d'être classé comme article et n'entre pas dans le champ d'application d'une FDS tel qu'énoncé dans la partie 1910.1200 du 29 CFR. Cette FDS est générée pour référence du client uniquement

SECTION 2 - Hazardous Identification

SECTION 2 - Identification des dangers

Classification of the substance or mixture :

Classification de la substance ou du mélange :

Classification according to OSHA Hazard Communication Standard (29CFR 1910.1200)

Classification selon la norme OSHA Hazard Communication Standard (29CFR 1910.1200)



.GHS08 Health hazard / GHS08 Danger pour la santé

Carc. 2

H351

Suspected of causing Cancer. / Soupçonné d'avoir causé le cancer.



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STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.
Provoque des dommages aux organes par une exposition prolongée ou répétée.



GHS05 Corrosion / Corrosion

Skin Corr. 1A H314 Cause severe skin burns and eye damage/ Causer de graves brûlures de la peau et des dommages oculaires.

Eye Dam. 1 H318 Cause serious eye damage./ Causer de graves lésions oculaires.



GHS07

Acute Tox. 4 H302 Harmful if swallowed. / Nocif en cas d'ingestion.

Acute Tox 4 H332 Harmful if inhaled / Nocif en cas d'inhalation

Skin Sens 1 H317 May cause an allergic skin reaction./ May cause an allergic skin reaction.

Information concerning particular hazards for human and environment:

Informations concernant des dangers particuliers pour l'homme et l'environnement:

The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard

Le produit doit être étiqueté en raison de la procédure de calcul de la norme de communication OSHA Hazard (29 CFR 1910.1200).

Classification system: / Système de classification:

The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

La classification est conforme à la dernière édition de la norme OSHA Hazard Communication Standard (29 CFR 1910.1200), et étendue par les données de l'entreprise et de la littérature.

Label Elements / Éléments d'étiquette

Labeling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Étiquetage selon la norme de communication OSHA Hazard (29 CFR 1910.1200)

Hazard Pictograms / Pictogrammes de danger



GHS05



GHS07



GHS08

Signed word : Danger / Mot signé : Danger

Hazard-determining components of labeling: / Composants de l'étiquetage qui déterminent les dangers :

Manganese dioxide / Dioxyde de manganèse

Potassium hydroxide / Hydroxyde de potassium

Nickle / Nickel

Hazard statements / Mentions de danger

H302+H332 Harmful if swallowed or if inhaled / Nocif en cas d'ingestion ou d'inhalation

H314 Causes severe skin burns and eye damage / Provoque de graves brûlures cutanées et des lésions oculaires

H317 May cause an allergic skin reaction/ Peut provoquer une réaction allergique cutanée

H351 Suspected of causing cancer / Soupçonné d'être à l'origine du cancer



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H372	Causes damage to organs through prolonged or repeated exposure Cause des dommages aux organes par une exposition prolongée ou répétée
Precautionary statements / Conseils de prudence	
P260	Do not breathe dusts or mists / Ne respirez pas les poussières ou les brouillards
P303+P361+P353	If not skin/hair : Take off immediately all contaminated clothing. Rinse skin with water/showeSi ce n'est pas la peau/les cheveux : Enlevez immédiatement tous les vêtements contaminés. Rincer la peau à l'eau/douche
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do Continue rinsing. Si dans les yeux: Rincez prudemment à l'eau pendant plusieurs minutes. Retirez les lentilles de contact, le cas échéant et facile à faire Continuez le rinçage.
P310	Immediately call a poison center/doctor./ Appelez immédiatement un centre antipoison / médecin.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations
Hazards not otherwise classified (HNOC) No further relevant information available.	

SECTION 3 -Composition/ information on ingredients / SECTION 3 - Composition/informations sur les ingrédients

Chemical characterization :

Mixtures /Caractérisation chimique : Mélanges

Description/ description :

Mixture of the substances listed below with nonhazardous additions.

For the wording of listed risk phrases refer to section 16

Mélange des substances énumérées ci-dessous avec des ajouts non dangereux.

Pour le libellé des phrases de risque énumérées, se reporter à l'article 16

Compositions / compositions		
1313-13-9	Manganese Dioxide / Dioxyde de manganèse Acute Tox.4 H302; Acute Tox.4 H332	25~30%
7439-89-6	Iron / fer	40~48%
7440-66-6	Zinc / Zinc	9~10%
7732-18-5	Water / Eau	4~6%
1310-58-3	Potassium Hydroxide /Hydroxyde de potassium Skin Corr.1A, H314; Acute Tox.4, H302	3~5%
7782-42-5	Graphite / graphite	3~5%
7440-02-0	Nickel / Nickel Carc 2, H351; STOT RE 1, H372: Skin Sens.1, H317	1~1.5%
9004-34-6	Cellulose / cellulose	0.3~0.85
1314-13-2	Zinc Oxide / oxyde de zinc	0.35~0.65%



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SECTION 4 - First Aid Measures / mesures de premiers secours

Most important symptoms and effects both acute and delayed:

Symptômes et effets les plus importants à la fois aigus et retardés:

SECTION 5 - Fire-fighting measures

SECTION 5 - Mesures de lutte contre l'incendie

Suitable extinguishing agents// Agents extincteurs appropriés

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

CO₂, poudre extinctrice ou pulvérisation d'eau. Combattez les grands incendies avec des projections d'eau ou de la mousse résistante à l'alcool

Special hazards arising from the substance or mixture:

No further relevant information available.

Dangers particuliers découlant de la substance ou du mélange: Aucune autre information pertinente disponible.

Special protective equipment and precautions for firefighters

Équipement de protection spécial et précautions pour les pompiers

Protective equipment: Mouth respiratory protective device.

Équipement de protection : Appareil de protection respiratoire buccale.

SECTION 6 – Accidental release measures // Mesures de rejet accidentel

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Précautions personnelles, équipement de protection et procédures d'urgence :

Portez un équipement de protection. Éloignez les personnes non protégées.

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.

Do not allow to enter sewer/surface or ground water.

Précautions environnementales :

Ne laissez pas le produit atteindre le système d'égout ou tout cours d'eau.

Informez les autorités respectives en cas d'infiltration dans le cours d'eau ou le système d'égouts.

Ne laissez pas pénétrer dans les égouts, les eaux de surface ou souterraines.

Methods and material for containment and cleaning up:

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Méthodes et matériels de confinement et de nettoyage :

Utilisez un agent neutralisant.

Éliminer les matières contaminées en tant que déchets conformément au point 13.

Assurer une ventilation adéquate.

SECTION 7 - Handling and Storage // Manutention et entreposage

Precautions for sales handling: // Précautions pour la manipulation des ventes :

Through dedusting

Ensure good ventilation/exhaustion at the workplace.

For the general occupational hygienic measures refer to Section 8.

Par dépoussiérage

Assurer une bonne ventilation/évacuation sur le lieu de travail.



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Pour les mesures générales d'hygiène du travail, voir la section 8.

Information about protection against explosions and fires: No special measures required

Conditions for safe storage, including any incompatibilities

Informations sur la protection contre les explosions et les incendies: Aucune mesure particulière requise

Conditions de stockage en toute sécurité, y compris les incompatibilités éventuelles

Requirements to be met by storerooms and receptacles: No special requirement.

Exigences auxquelles doivent satisfaire les entrepôts et les réceptacles : Aucune exigence particulière.

Information about storage in one common storage facility: No required

Informations sur le stockage dans une installation de stockage commune : Aucune exigence

Further information about storage conditions: Keep receptacle tightly sealed.

Plus d'informations sur les conditions de stockage: Gardez le récipient hermétiquement scellé.

SECTION 8 - Exposure Controls / Person Protection

Contrôles de l'exposition / Protection des personnes

Components with limit values that require monitoring at the workplace:

Composants dont les valeurs limites nécessitent une surveillance sur le lieu de travail :

1313-13-9 Manganese Dioxide/ Dioxyde de manganèse (25~30%)

PEL (USA)	Ceiling limit value:// Valeur limite plafonnée 5mg/m ³ as Mn
REL (USA)	Short-term: À court terme: 3mg/m ³
TLV (USA)	Long-term : À long terme: 1mg/m ³ Long-term : À long terme: 0.2*0.1*mg/m ³ as Mn; *respirable **inhalable fraction *respirable **fraction inhalable

1310-58-3 Potassium Hydroxide Potassium / Hydroxyde de potassium (3~5%)

REL (USA)	Ceiling limit value / Valeur limite plafonnée: 2mg/m ³
TLV (USA)	Ceiling limit value / Valeur limite plafonnée : 2mg/m ³

7782-42-5 Graphite / Graphite (3~5%)

PEL (USA)	Long-term value: Valeur à long terme : 15mppcf*mg/m ³ *impinge samples counted by light field techn./ *impinge samples counted by light field techn.
REL (USA)	Long-term value:// Valeur à long terme : 2.5mg/m ³ *repirable dust *repirable dust
TLV (USA)	Long-term value:// Valeur à long terme : 2*mg/m ³ All forms except graphite fibers;*resp. fraction / Toutes les formes à l'exception des fibres de graphite;*resp. fraction

7440-02-0 Nickle// Nickel (1~1.5%)

PEL (USA)	Long-term value: / Valeur à long terme : / 1mg/m ³
REL (USA)	Long-term value:// Valeur à long terme : 0.015mg/m ³ As Ni; See Pocket Guide App.A / As Ni; See Pocket Guide App.A
TLV (USA)	Long-term value:// Valeur à long terme : 1.5mg/m ³ Elemental , *inhalable fraction/ Élémentaire , *fraction inhalable

9004-34-6 Cellulose// cellulose (0.3~0.85%)

PEL (USA)	Long-term value: // Valeur à long terme : 15*5**mg/m ³ *total dust **respirable fraction // *poussière totale **fraction respirable
REL (USA)	Long-term value:// Valeur à long terme : 10*5**mg/m ³ *total dust ** respirable fraction
TLV (USA)	*poussière totale ** fraction respirable Long-term value:// Valeur à long terme : 10mg/m ³



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1314-13-2 Zinc Oxide // Oxyde de zinc (0.35~0.65%)

PEL (USA)	Long-term value:// Valeur à long terme : 15*5**mg/m ³ *total dust **respirable fraction and fume
REL (USA)	*poussière totale **fraction respirable et fumée Short-term value: 10**mg/m ³ Short-term value: 10**mg/m ³
TLV (USA)	Long-term // valu Valeur à long terme : 5*5**mg/m ³ Ceiling limit value : 15mg/m ³ *dust only **fume Short-term value: 10*mg/m ³ Short-term value: 10**mg/m ³ Long-term value/ Valeur à long terme :/: 2*mg/m ³ *as respirable fraction *sous forme de fraction respirable

Additional information : The lists that were valid during the creation were used as basis.

Informations complémentaires : Les listes qui étaient valides lors de la création ont été utilisées comme base.

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

Sur la base de la composition indiquée à la section 3, les mesures suivantes sont suggérées pour les mesures de sécurité au travail.

Appropriate engineering controls:// Contrôles techniques appropriés :

Keep away from foodstuffs beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of works

Avoid contact with the eyes and skin

Tenir à l'écart des denrées alimentaires, des boissons et des aliments pour animaux.

Enlevez immédiatement tous les vêtements souillés et contaminés.

Lavez-vous les mains avant les pauses et à la fin des travaux

Éviter tout contact avec les yeux et la peau

See Section 7 for information about design of technical facilities.

Voir la section 7 pour plus d'informations sur la conception des installations techniques.

Personal protective equipment:// Équipement de protection individuelle:

Breathing equipment:// Appareil respiratoire :

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.

En cas d'exposition brève ou de faible pollution, utilisez un appareil de filtration respiratoire. En cas d'exposition intensive ou prolongée, utilisez un appareil de protection respiratoire indépendant de la circulation de l'air.

Protection of hands:// Protection des mains



Protective gloves // Gants de protection

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.

Le matériau du gant doit être imperméable et résistant au produit/à la substance/à la préparation.

En raison de tests manquants, aucune recommandation sur le matériau du gant ne peut être donnée pour le produit / la préparation / le mélange chimique.

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



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matériau du gant en tenant compte des temps de pénétration, des taux de diffusion et de la dégradation

Material of gloves // Matériau des gants

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 cannot be calculated in advance and has therefore to be checked prior the application.

Le choix des gants appropriés ne dépend pas seulement du matériau, mais aussi d'autres marques de qualité et varie d'un fabricant à l'autre. Comme le produit est une préparation de plusieurs substances, la résistance du matériau du gant ne peut pas être calculée à l'avance et doit donc être vérifiée avant l'application.

Penetration time of glove material: // Temps de pénétration du matériau du gant:

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

Le temps de rupture exact doit être trouvé par le fabricant des gants de protection et doit être observé.

Eyes protection: // Protection des yeux :



Tightly sealed goggles // Tightly sealed goggles

SECTION 9 Physical and Chemical properties // Propriétés physiques et chimiques	
General Information // Informations générales	
Appearance: // Apparence:	
Form: // Forme	Solid, // Solide
Color: // Couleur:	Silvery // Argenté
Odor: // Odeur:	Odorless // Inodore
Odour threshold // Seuil d'odeur	Not available // Non disponible
pH-value: // pH value	Not applicable Not available // Non disponible
Change in condition // Changement d'état	
Melting point // Point de fusion	Not available // Non disponible
Freezing point // Point de congélation	Not available // Non disponible
Boiling point // Point d'ébullition	Not available // Non disponible
Flash point: // Point d'éclair	Not available // Non disponible
Flammability (solid, gaseous):	Not available // Non disponible
Auto-Ignition: // Auto-allumage:	Not available // Non disponible
Decomposition // Décomposition	Not available // Non disponible
Explosion limits: // Limites d'explosion :	
Lower: // Baisser	Not available // Non disponible



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Upper:// Supérieur:	Not available// Non disponible
Vapor pressure:// Pression de vapeur	Not available// Non disponible
Density:// Densité:	Not available// Non disponible
Relative density:// Densité relative :	Not available// Non disponible
Vapour density:// Densité de vapeur:	Not available// Non disponible
Evaporation rate:// Taux d'évaporation:	Not available// Non disponible
Solubility in/Miscibility with Water Solubilité dans/Miscibilité avec l'eau	Not available// Non disponible
Partition coefficient (n-octanol/water) Coefficient de partage (n-octanol/eau)	Not available// Non disponible
Viscosity// Viscosité:	
Dynamic:	Not available// Non disponible
Dynamique:	Non disponible
Kinematic:	Not available// Non disponible
Cinématique:	
Other information Autres informations	Voltage: 1.5V

SECTION 10 Stability and reactivity// Stabilité et réactivité

Reactivity : Data not available // Réactivité : Données non disponibles
Chemical stability: Stable under normal operation and storage conditions.
 Stabilité chimique: Stable dans des conditions normales de fonctionnement et de stockage.
Possibility of hazardous reactions: No dangerous reactions known.
 Possibilité de réactions dangereuses: Aucune réaction dangereuse connue.
Conditions to avoid: No further relevant information available
 Conditions à éviter : Aucune autre information pertinente disponible
Incompatible materials : No further relevant information available
Hazardous decomposition products : No dangerous decomposition products known.

SECTION 11 Toxicological information //Informations toxicologiques

Acute toxicity:// Toxicité aiguë

LD/LC50 values that are relevant for classification:// Valeurs de DL/CL50 pertinentes pour la classification		
1310-58-3 Potassium hydroxide // Hydroxyde de potassium		
Oral	LD50	372 mg/kg (rat)
7439-89-6 Iron// fer		
Oral	LD50	30000 mg/kg (rat)
9004-34-6 Cellulose //Cellulose		
Oral	LD50	5000 mg/kg (rat)

Serious eye damage/irritation: Strong caustic effect.



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Lésions/irritations oculaires graves : Fort effet caustique.Serious eye damage/irritation:

Additional toxicological information: Informations toxicologiques supplémentaires :

The product shows the following dangers according to internally approved calculation methods for preparations
Le produit présente les dangers suivants selon les méthodes de calcul approuvées en interne pour les préparations

Harmful // Nocif

Corrosive //Corrosif

Irritant// Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
La déglutition entraînera un fort effet caustique sur la bouche et la gorge et le danger de perforation de l'œsophage et de l'estomac.

Carcinogenic categories //Catégories cancérogènes

IARC (International Agency for Research on Cancer)

CIRC (Centre international de recherche sur le cancer)

7440-02-0	Nickel //Nickel	1
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NTP (National Toxicology Program) //NTP (Programme national de toxicologie)

7440-02-0	Nickel	R
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OSHA-Ca (Occupational Safety & Health Administration)

OSHA-Ca (Administration de la sécurité et de la santé au travail)

None of the ingredients is listed.// Aucun des ingrédients n'est répertorié.

SECTION 12- Ecological Information// Informations écologiques

Toxicity // Toxicité

Aquatic toxicity: No further relevant information available.

Toxicité aquatique : Aucune autre information pertinente n'est disponible.

Persistence and degradability : No further relevant information available.

Persistence et dégradabilité : Aucune autre information pertinente disponible.

Bioaccumulative potential: No further relevant information available.

Potentiel de bioaccumulation : Aucune autre information pertinente n'est disponible.

Mobility in soil: No further relevant information available.

Mobilité dans le sol: Aucune autre information pertinente disponible.

Other adverse effects: No further relevant information available.

Autres effets indésirables : Aucune autre information pertinente n'est disponible.

SECTION 13- Disposal considerations : //Considérations relatives à l'élimination

Water treatment methods// Méthodes de traitement de l'eau

Recommendation: //Recommandation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Ne doit pas être jeté avec les ordures ménagères. Ne laissez pas le produit atteindre le système d'égouts.

Uncleaned packagings: Emballages non nettoyés :

Recommendation: Disposal must be made according to official regulations

Recommandation: L'élimination doit être effectuée conformément à la réglementation officielle



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SECTION 14 – Transport Information // Informations sur le transport

Alkaline Manganese Button Cell (Mercury Free) is exempt from dangerous goods It is considered non - Dangerous goods by the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA), International Maritime Dangerous Goods regulations (IMDG) the <<recommendations on the Transport of Dangerous Goods Model Regulations>> (19th)and also is not classified as dangerous goods under the 62nd Edition of the IATA Dangerous Goods Regulation 2021 Special Provision A123. Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport . Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain. Transport Fashion: By air, By sea , By road

La pile alcaline au manganèse est exemptée des marchandises dangereuses Elle est considérée comme non- Les marchandises dangereuses par l'Organisation de l'aviation civile internationale (OACI), l'Association du transport aérien international (IATA), le Règlement international martine sur les marchandises dangereuses (IMDG) les <<recommandations sur le Règlement type sur le transport des marchandises dangereuses>> (19e) et ne sont pas non plus classées comme marchandises dangereuses en vertu de la 62e édition de la disposition spéciale A123 du Règlement de 2021 sur les marchandises dangereuses de l'IATA. Séparez les batteries lors de l'expédition pour éviter les courts-circuits. Ils doivent être emballés dans un emballage solide pour le soutien pendant le transport . Prenez une cargaison d'entre eux sans tomber, tomber et casser. Empêcher l'effondrement des tas de cargaison et l'humidité par la pluie. Mode de transport: Par avion, Par mer , Par route

SECTION 15 - Regulatory information// Informations réglementaires

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

Réglementation/législation en matière de sécurité, de santé et d'environnement spécifique à la substance ou au mélange

Section 335 (extremely hazardous substances) // Article 335 (substances extrêmement dangereuses)

None of the ingredients is listed // Aucun des ingrédients n'est répertorié

Section 313 (specific toxic chemical listings)// (listes spécifiques de produits chimiques toxiques) :

1313-13-9	Manganese Dioxide // Dioxyde de manganèse
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7440-02-0	Nickel // Nickel
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1314-13-2	Zinc Oxide // Oxyde de zinc
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TSCA (Toxic Substances Control Act):// (Loi sur le contrôle des substances toxiques) :

7439-89-6	Iron // Fer
-----------	-------------

1313-13-9	Manganese Dioxide //Dioxyde de manganèse
-----------	--

1310-58-3	Potassium Hydroxide// Hydroxyde de potassium
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7782-42-5	Graphite// Graphite
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7440-02-0	Nickel// Nickel
-----------	-----------------

9004-34-6	Cellulose // Cellulose
-----------	------------------------

1314-13-2	Zinc Oxide // Oxyde de zinc
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7732-18-5	Water// Eau
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Proposition 65

Chemical known to cause cancer:

Produits chimiques connus pour causer le cancer

7440-02-0	Nickel // Nickel
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Chemicals known to cause reproductive toxicity for females:

Produits chimiques connus pour causer une toxicité pour la reproduction chez les femelles:

None of the ingredients is listed // Aucun des ingrédients n'est répertorié

Chemicals known to cause reproductive toxicity for males:

Produits chimiques connus pour causer une toxicité pour la reproduction chez les mâles:

None of the ingredients is listed// Aucun des ingrédients n'est répertorié

Chemicals known to cause developmental toxicity

Produits chimiques connus pour causer une toxicité pour le développement



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None of the ingredients is listed // Aucun des ingrédients n'est répertorié		
Carcinogenicity categories // Catégories de cancérogénité		
EPA (Environmental Protection Agency) // EPA (Agence de protection de l'environnement)		
1313-13-9	Manganese Dioxide // Dioxyde de manganèse	D
7440-66-6	Zinc // Zinc	II
1314-13-2	Zinc Oxide // Oxyde de zinc	D, I, II

TLV (Threshold Limit Value established by ACGIH) // TLV (valeur limite de seuil établie par l'ACGIH)		
7440-02-0	Nickel // Nickel	A5
NIOSH-CA (National Institution for Occupational Safety & Health) // NIOSH-CA (Institution nationale pour la sécurité et la santé au travail)		
7440-02-0	Nickel // Nickel	

SECTION 16 – Other information // Autres informations
 Relevant phrases // Phrases pertinentes
 H301 Toxic if swallowed // H301 Toxique en cas d'ingestion
 H302 Harmful if swallowed // H302 Nocif en cas d'ingestion

 H311 Toxic in contact with skin // H311 Toxique au contact de la peau
 H314 Causes severe skin burns and eye damage // H314 Provoque de graves brûlures cutanées et des lésions oculaires
 H317 May cause an allergic skin reaction // H317 Peut provoquer une réaction allergique cutanée
 H331 Toxic if inhaled // H331 Toxique en cas d'inhalation
 H332 Harmful if inhaled // H332 Nocif en cas d'inhalation
 H351 Suspected of causing cancer // H351 Soupçonné de causer le cancer
 H372 Cause damage to organs through prolonged or repeated exposure.
 H372 Causer des dommages aux organes par une exposition prolongée ou répétée.
 The contents and format of this SDS are in accordance with 29 CFR 1910.1200 (g)
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Remark:
 *This sample is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200
 This SDS is generated for client's reference only.
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