Safety Data Sheet

3 Slime Powder (Red, Green, Purple）

Version: V2.0.1.1
Report No.: HGBZ2509M2Z2
Creation Date: 2025/09/08
Revision Date: -

***Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)**

Part 1: Identification

Product identifier

Product Name	3 Slime Powder (Red, Green, Purple）
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Applicant Name	North Star (Xiamen) Technology Co., Ltd.
Applicant Address	No.63, Hongxi South Road, Xiangan Industrial Zone, Xiamen Torch High-tech Park, Xiamen, Fujian, China
Applicant Post Code	361100
Applicant Telephone	0086-592-7829518
Applicant Fax	-
Applicant E-mail	michellelv@northstarxm.com
Supplier Name	JMW Sales, Inc., dba Blue Marble
Supplier Address	101 A Street Ashland, OR 97520 USA
Supplier Post Code	-
Supplier Telephone	+1(541)708-6738
Supplier Fax	-
Supplier E-mail	v_compliance@thinkbluemarble.com

Emergency phone number

Emergency phone number	+1 800 222 1222

Part 2: Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

According to OSHA HCS-2024, not classified as a hazardous chemical.

Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

Hazard statements

Hazard statements	Not applicable

Precautionary statements

- Prevention

Prevention	Not applicable

- Response

Response	Not applicable

- Storage

Storage	Not applicable

- Disposal

Disposal	Not applicable

Other hazards

- Other

	Not applicable.

Hazard description

- Physical and chemical hazards

	No information available.

- Health hazards

Inhaled	According to GHS system, not classified as a hazardous chemical.
Ingestion	According to GHS system, not classified as a hazardous chemical.
Skin Contact	According to UN GHS. Not classified as a dangerous substance.
Eye	According to UN GHS. Not classified as a dangerous substance.

- Environmental hazards

	Please refer to 12th chapter of SDS.

Part 3: Composition/information on ingredients

Substance/mixture

	Mixture

Component	CAS No.	EC No.	Concentration (weight percent, %)
Slime Powder (Purple)			
Guar gum	9000-30-0	232-536-8	≥ 48.84
Zinc sulfide	1314-98-3	215-251-3	≤ 25
Starch Potato	9005-25-8	232-679-6	≤ 13.78
D-glucose hydrate	14431-43-7	-	≤ 9.64
Pigment violet 19	1047-16-1	213-879-2	≤ 1.2
Sodium hydrogen phosphate	7558-79-4	231-448-7	≤ 0.96
Sodium dehydroacetate	4418-26-2	224-580-1	≤ 0.5
Boric acid	10043-35-3	233-139-2	≤ 0.08
Slime Powder (Green)			

Guar gum	9000-30-0	232-536-8	≥ 48.84
Zinc sulfide	1314-98-3	215-251-3	≤ 25
Starch Potato	9005-25-8	232-679-6	≤ 13.98
D-glucose hydrate	14431-43-7	-	≤ 9.64
Pigment green 7	1328-53-6	215-524-7	≤ 1
Sodium hydrogen phosphate	7558-79-4	231-448-7	≤ 0.96
Sodium dehydroacetate	4418-26-2	224-580-1	≤ 0.5
Boric acid	10043-35-3	233-139-2	≤ 0.08
Slime Powder (Red)			
Guar gum	9000-30-0	232-536-8	≥ 48.84
Zinc sulfide	1314-98-3	215-251-3	≤ 25
Starch Potato	9005-25-8	232-679-6	≤ 13.58
D-glucose hydrate	14431-43-7	-	≤ 9.64
Pigment red 122	980-26-7	213-561-3	≤ 1.4
Sodium hydrogen phosphate	7558-79-4	231-448-7	≤ 0.96
Sodium dehydroacetate	4418-26-2	224-580-1	≤ 0.5
Boric acid	10043-35-3	233-139-2	≤ 0.08

Part 4: First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	No harm in general situation. First aid is not needed.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

1	Please see section 11.

Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

Part 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.
2	Not considered a significant fire risk, however containers may burn.

Special protective equipment and precautions for fire-fighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

Part 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

1	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment,do not breathe dust/fume.

Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

1	Keep leaks in a ventilated place.
2	Cut off the source of the leak as much as possible.
3	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
4	Isolation of contaminated areas and restrictions on access.
5	It is recommended that emergency personnel wear dust masks.
6	Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.

Part 7: Handling and storage

Precautions for safe handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

Part 8: Exposure controls/personal protection

Control parameters

- Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³

Starch Potato	Australia	-	10	-	-
	Canada - Ontario	-	10	-	-
	USA - ACGIH	-	10	-	-
	USA - NIOSH	-	10	-	-
	USA - OSHA	-	15	-	-
	Belgium	-	10	-	-
Boric acid	Canada - Ontario	-	2	-	6
	USA - ACGIH	-	2(Inhalable fraction)	-	6(Inhalable fraction)
	Belgium	-	2	-	6
	Canada - Québec	-	2	-	6
	Germany (AGS)	-	0.5	-	1
	Germany (DFG)	-	10(inhalable aerosol)	-	10(inhalable aerosol)

◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 and GBZ/T 160 series standard Determination of toxic substances in workplace air.

Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Set up emergency exit and necessary risk-elimination area.
4	Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

General requirement	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.
Hand protection	In general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.
Skin and body protection	In general situation, skin and body protection are not needed.

Part 9: Physical and chemical properties and safety characteristics

Physical and chemical properties

Appearance (physical state, color, etc.)	3 Slime Powder (Red, Green, Purple）
Odor	No information available
Odor threshold	No information available
pH	No information available
Melting point/freezing point(℃)	No information available
Initial boiling point and boiling range(℃)	No information available
Flash point(Closed cup,℃)	Not applicable
Evaporation rate	Not applicable

Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure	Not applicable
Vapor density(Air＝1)	Not applicable
Relative density(Water=1)	No information available
Solubility	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(℃)	No information available
Decomposition temperature(℃)	No information available
Viscosity	Not applicable

Part 10: Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	No information available.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Part 11: Toxicological information

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
Boric acid	2660mg/kg(Rat)	No information available	No information available
Guar gum	6770mg/kg(Rat)	No information available	No information available
Sodium dehydroacetate	500mg/kg(Rat)	No information available	No information available
Pigment red 122	> 23000mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
Sodium hydrogen phosphate	17000mg/kg(Rat)	No information available	No information available
Zinc sulfide	> 2000mg/kg(Rat)	> 2000mg/kg(Rat)	> 5.04mg/L(Rat)

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Guar gum	Not Listed	Not Listed	Not Listed
Starch Potato	Not Listed	Not Listed	Not Listed
D-glucose hydrate	Not Listed	Not Listed	Not Listed
Sodium hydrogen phosphate	Not Listed	Not Listed	Not Listed
Boric acid	Not Listed	Not Listed	Not Listed
Sodium dehydroacetate	Not Listed	Not Listed	Not Listed

Zinc sulfide	Not Listed	Not Listed	Not Listed
Pigment violet 19	Not Listed	Not Listed	Not Listed
Pigment green 7	Not Listed	Not Listed	Not Listed
Pigment red 122	Not Listed	Not Listed	Not Listed

Others

3 Slime Powder (Red, Green, Purple）	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met

Part 12: Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Boric acid	LC_{50}: 487mg/L (96h)(Fish)	EC_{50}: 226mg/L (48h)(Daphnia magna)	ErC_{50}: 290mg/L (72h)(Pseudokirchneriella subcapitata)
Sodium dehydroacetate	LC_{50}: 100mg/L (96h)(Fresh water fish)	EC_{50}: > 100mg/L (48h)(Daphnia magna)	ErC_{50}: 32.1mg/L (72h)(Freshwater algae)
Pigment red 122	LC_{50}: ＞100mg/L (96h)(Fish)	EC_{50}: > 100mg/L (48h)(Daphnia magna)	ErC_{50}: > 10mg/L (72h)(Algae)
Sodium hydrogen phosphate	LC_{50}: ＞100mg/L (96h)(Fresh water fish)	EC_{50}: > 100mg/L (48h)(Daphnia magna)	ErC_{50}: > 100mg/L (72h)(Freshwater algae)
Pigment violet 19	LC_{50}: ＞100mg/L (96h)(Fish)	EC_{50}: > 100mg/L (48h)(Aquatic invertebrates)	ErC_{50}: > 100mg/L (72h)(Desmodesmus subspicatus)
Zinc sulfide	LC_{50}: 1830mg/L (96h)(Fish)	No information available	No information available

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Boric acid	No information available	No information available	NOEC: 82mg/L(Pseudokirchneriella subcapitata)
Pigment red 122	NOEC: ≥10mg/L(Fish)	No information available	No information available
Pigment violet 19	NOEC: ≥10mg/L(Fish)	No information available	No information available

Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
D-glucose hydrate	Low	Low
Boric acid	Low	Low
Pigment violet 19	High	High

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
D-glucose hydrate	Low	Log Kow=-3.24
Boric acid	Low	BCF=0
Zinc sulfide	Low	BCF=217
Pigment violet 19	Low	Log Kow=1.377
Pigment green 7	Low	BCF=74

Mobility in soil

Component	log Koc	Remark	Data source
D-glucose hydrate	1.000		Chemwatch
Boric acid	1.545		Chemwatch
Sodium dehydroacetate	1	25 ℃	ECHA
Pigment violet 19	3.583		Chemwatch

Part 13: Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

Part 14: Transport information

Label

Transporting Label	Not applicable

US DOT (49CFR)

49CFR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

ICAO/IATA-DGR

ICAO/IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to IMO instruments

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

No information available

- Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

No information available

- Transport in bulk in accordance with the IGC Code

No information available

Others

Precautions for transport	Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

Part 15: Regulatory information

International chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
Guar gum	√	√	√	√	√	√	√	√	×	√	√	√	√
Starch Potato	√	√	√	√	√	√	√	√	√	√	√	√	√
D-glucose hydrate	√	×	×	×	√	√	×	√	×	×	×	√	√
Sodium hydrogen phosphate	√	√	√	√	√	√	√	√	√	√	√	√	√
Boric acid	√	√	√	√	√	√	√	√	√	√	√	√	√
Sodium dehydroacetate	√	√	√	√	√	√	√	√	√	×	√	√	√
Zinc sulfide	√	√	√	√	√	√	√	√	√	√	√	√	√
Pigment violet 19	√	√	√	√	√	√	√	√	√	√	√	√	√
Pigment green 7	√	√	√	√	√	√	√	√	√	√	×	√	√
Pigment red 122	√	√	√	√	√	√	√	√	√	√	×	√	√

【A】 China Inventory of Existing Chemical Substances(IECSC)
【B】 European Inventory of Existing Commercial Chemical Substances(EC inventory)
【C】 United States Toxic Substances Control Act Inventory(TSCA)
【D】 Canadian Domestic Substances List(DSL)
【E】 New Zealand Inventory of Chemicals(NZIoC)
【F】 Philippines Inventory of Chemicals and Chemical Substances(PICCS)
【G】 Korea Existing Chemicals Inventory(KECL)
【H】 Australian. Inventory of Industrial Chemical (AIICS)
【I】 Japan Inventory of Existing & New Chemical Substances(ENCS)
【J】 Thailand Existing Chemicals Inventory(TECI)
【K】 Mexico National Inventory of Chemical Substances(INSQ)
【L】 Russia Inventory of Existing Substances(DRAFT)
【M】 Inventory of Existing Chemical Substances in Taiwan, China(TCSI)

List of Chemical Substances under International Conventions

Component	A	B	C
Guar gum	×	×	×
Starch Potato	×	×	×
D-glucose hydrate	×	×	×
Sodium hydrogen phosphate	×	×	×
Boric acid	×	×	×
Sodium dehydroacetate	×	×	×
Zinc sulfide	×	×	×
Pigment violet 19	×	×	×
Pigment green 7	×	×	×

Pigment red 122	×	×	×

【A】 The Montreal Protocol on Substances that Deplete the Ozone Layer
【B】 Stockholm Convention on Persistent Organic Pollutants (POPs)
【C】 Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	A	B	C	D	E	F	G	H
Guar gum	×	×	×	×	×	×	×	×
Starch Potato	×	×	×	√	×	√	×	×
D-glucose hydrate	×	×	×	×	×	×	×	×
Sodium hydrogen phosphate	×	×	√	√	√	√	√	×
Boric acid	×	×	×	×	×	×	×	×
Sodium dehydroacetate	×	×	×	×	×	×	×	×
Zinc sulfide	×	×	×	×	×	×	×	×
Pigment violet 19	×	×	×	×	×	×	×	×
Pigment green 7	×	×	×	×	×	×	×	×
Pigment red 122	×	×	×	×	×	×	×	×

【A】 US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
【B】 US SARA 302- Extremely Hazardous Substance List
【C】 US CERCLA- Hazardous Substances List
【D】 US Massachusetts Right-to-Know Substance List
【E】 US New Jersey Right to Know Hazardous Substance List
【F】 US Pennsylvania Right to Know Hazardous Substance List
【G】 US New York City Right-to-Know Hazardous Substance List
【H】 US California Proposition 65 List

Note:

"√" Indicates that the substance included in the regulations.

"×" No data or not included in the regulations.

Part 16: Other information

Information on revision

Creation Date	2025/09/08
Revision Date	-
Reason for revision	-

Reference

【1】 IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
【2】 IARC, website: http://www.iarc.fr/.
【3】 OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
【4】 CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
【5】 NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
【6】 EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
【7】 U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
【8】 Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC_{50}	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD_{50}	Lethal Dose 50%	NTP	National Toxicology Program
EC_{50}	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P_{OW}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	G1	Carcinogenic to humans
G2A	Probably carcinogenic to humans	G2B	Possibly carcinogenic to humans
G3	Not yet classified as carcinogenic to humans	G4	Probably not carcinogenic to humans
HCS	Hazard Communication Standard		

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

CTI 华测检测

Centre Testing International Group

SDS

Report No. : A2240552902103002

Company Name shown on Report: JMW SALES, INC.,DBABLUEMARBLE

Address: 101 A STREET ASHLAND, OR 97520USA

Sample Name: Orange Bouncing Putty

Reviewed by: Gu Cuili

Approved by: Chen Kaimin

Issue date: Sep. 23, 2024

CENTRE TESTING INTERNATIONAL GROUP CTI SDS

No. R683971470

CTI 华测检测

Safety Data Sheet

Orange Bouncing Putty

Version：V2.0.1.1
Report No.：A2240552902103002
Creation Date：2024/09/23
Revision Date：2024/09/23

***Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)**

1 Identification

| Product identifier

Product Name	Orange Bouncing Putty
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

| Recommended use of the product and restrictions on use

Relevant identified uses	Slime and putty set.
Uses advised against	None.

| Details of the supplier and applicant of the Safety Data Sheet

Name of the supplier	JMW Sales, Inc., dba Blue Marble
Address of the supplier	101 A Street Ashland, OR 97520 USA
Post code	201206
Telephone number	+1 (541) 708-6741-107
Fax number	-
E-mail address	jhoffner@jmwsales.com
Name of the applicant	North Star (Xiamen) Technology Co., Ltd.
Address of the applicant	No.63, Hongxi South Road, Xiangan Industrial Zone, Xiamen Torch High-tech Park, Xiamen, Fujian, China
Post code	361100
Telephone number	0086-592-7829518
Fax number	-
E-mail address	Michellelv@northstarxm.com

| Emergency phone number

Emergency phone number	+1800 222 1222

2 Hazard(s) identification

| Hazard classification according to 29 CFR 1910.1200

According to OSHA HCS-2024, not classified as a hazardous chemical.

| Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

| Hazard statements

Hazard statements	Not applicable

| Precautionary statements

◆ Prevention

Prevention	Not applicable

◆ Response

Response	Not applicable

◆ Storage

Storage	Not applicable

◆ Disposal

Disposal	Not applicable

| Other hazards

	Not applicable.

| Hazard description

◆ Physical and chemical hazards

	No information available

◆ Health hazards

Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Eye	This product may cause temporary discomfort following direct contact with the eye.

◆ Environmental hazards

	Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

| Substance/mixture

	Mixture

Component	CAS No.	EC No.	Concentration (Volume or weight percent, %)
Water	7732-18-5	231-791-2	≥ 60.64
Polyvinyl alcohol	9002-89-5	618-340-9	≤ 12.60

Acrylic copolymer	30396-85-1	-	≤ 10.80
Glycerine	56-81-5	200-289-5	≤ 7.50
Poly(methyl methacrylate)	9011-14-7	618-466-4	≤ 7.38
2-Phenoxyethanol	122-99-6	204-589-7	≤ 0.50
Glycerol monolaurate	142-18-7	205-526-6	≤ 0.40
Pigment orange 38	12236-64-5	235-464-5	≤ 0.10
Orthoboric acid	10043-35-3	233-139-2	≤ 0.08

4 First-aid measures

| Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	No harm in general situation. First aid is not needed.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

| Most important symptoms/effects, acute and delayed

1	Please see section 11.

| Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

| Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

| Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.

| Special protective equipment and precautions for fire-fighters

1	As in any fire, wear self-contained breathing apparatus（MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

| Personal precautions, protective equipment and emergency procedures

1	Use personal protective equipment,do not breathe gas/mist/vapour/spray.
2	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

| Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

| Methods and materials for containment and cleaning up

1	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
4	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
5	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

7 Handling and storage

| Precautions for safe handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.

| Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

| Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Glycerine	Australia	-	10	-	-
	Canada - Ontario	-	10	-	-
	Canada - Québec	-	10	-	-

	France	-	10	-	-
	Germany (AGS)	-	200	-	400
	New Zealand	-	10	-	-
2-Phenoxyethanol	Canada - Ontario	25	141	-	-
	Germany (AGS)	1	5.7	1	5.7
	Austria	20	110	20	110
	Finland	20	110	50	290
	Germany (DFG)	1	5.7	1	5.7
	Poland	-	230	-	-
Orthoboric acid	Canada - Ontario	-	2	-	6
	Canada - Québec	-	2	-	6
	Germany (AGS)	-	0.5	-	1
	Belgium	-	2	-	6
	Germany (DFG)	-	10(inhalable aerosol)	-	10(inhalable aerosol)
	Ireland	-	2	-	-

| Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Set up emergency exit and necessary risk-elimination area.
4	Handle in accordance with good industrial hygiene and safety practice.

| Personal protection equipment

General requirement	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.
Hand protection	In general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.
Skin and body protection	In general situation, skin and body protection are not needed.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Appearance (physical state, color, etc.)	Orange colloid
Odor	Odorless
Odor threshold	No information available

pH	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	>35
Flash point(Closed cup,°C)	No information available
Evaporation rate	No information available
Flammability	Not flammable
Upper/lower explosive limits[%(v/v)]	Upper limit：No information available；Lower limit：No information available
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	No information available
Solubility	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Viscosity	No information available

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with oxidants causes severe reactions, and may cause a fire or explosion.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidants, alkali metals, alkaline earth metals and aluminum.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

| Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
Polyvinyl alcohol	23900mg/kg(Rat)	No information available	No information available
Orthoboric acid	2660mg/kg(Rat)	No information available	No information available
2-Phenoxyethanol	1260mg/kg(Rat)	5510mg/kg(Rabbit)	No information available
Glycerine	12600mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available

| Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Water	Not Listed	Not Listed	Not Listed
Polyvinyl alcohol	Category 3	Not Listed	Not Listed
Acrylic copolymer	Not Listed	Not Listed	Not Listed
Glycerine	Not Listed	Not Listed	Not Listed
Poly(methyl methacrylate)	Category 3	Not Listed	Not Listed
2-Phenoxyethanol	Not Listed	Not Listed	Not Listed
Glycerol monolaurate	Not Listed	Not Listed	Not Listed
Pigment orange 38	Not Listed	Not Listed	Not Listed
Orthoboric acid	Not Listed	Not Listed	Not Listed

| Others

Orange Bouncing Putty	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met

12 Ecological information

| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Pigment orange 38	LC_{50}： > 100mg/L (96h)(Fish)	EC_{50}： > 100mg/L (48h)(Daphnia magna)	No information available
Orthoboric acid	LC_{50}: 487mg/L (96h)(Fish)	EC_{50}： 226mg/L (48h)(Daphnia magna)	ErC_{50}： 290mg/L (72h)(Pseudokirchneriella subcapitata)
2-Phenoxyethanol	LC_{50}： 344mg/L (96h)(Fresh water fish)	No information available	No information available
Glycerine	LC_{50}： 885mg/L (96h)(Fresh water fish)	No information available	No information available

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
Orthoboric acid	No information available	No information available	NOEC：

			82mg/L(Pseudokirchneriella subcapitata)

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Poly(methyl methacrylate)	Low(Half-life = 56 days)	Low(Half-life = 0.4 days)
2-Phenoxyethanol	Low	Low
Glycerol monolaurate	Low	Low
Orthoboric acid	Low	Low

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Poly(methyl methacrylate)	Low	Log Kow=1.2751
2-Phenoxyethanol	Low	Log Kow=1.2
Glycerol monolaurate	Low	Log Kow=3.6696
Orthoboric acid	Low	BCF=0

| Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Poly(methyl methacrylate)	Low	10.14
2-Phenoxyethanol	Low	12.12
Glycerol monolaurate	Low	14.75
Orthoboric acid	Low	35.04

13 Disposal considerations

| Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

| Label

Transporting Label	Not applicable

| US DOT（49CFR)

49CFR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| ICAO/IATA-DGR

IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| Others

Precautions for transport	Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

15 Regulatory information

| International chemical inventory

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIICS	ENCS
Water	√	√	√	√	√	√	√	√	√
Polyvinyl alcohol	×	√	√	√	√	√	√	√	√
Acrylic copolymer	×	√	√	√	√	√	√	√	√
Glycerine	√	√	√	√	√	√	√	√	√
Poly(methyl methacrylate)	×	√	√	√	√	√	√	√	√
2-Phenoxyethanol	√	√	√	√	√	√	√	√	√
Glycerol monolaurate	√	√	√	√	√	√	√	√	√
Pigment orange 38	√	√	√	√	√	√	√	√	√
Orthoboric acid	√	√	√	√	√	√	√	√	√

[EC inventory] European Inventory of Existing Commercial Chemical Substances
[TSCA] United States Toxic Substances Control Act Inventory
[DSL] Canadian Domestic Substances List
[IECSC] China Inventory of Existing Chemical Substances
[NZIoC] New Zealand Inventory of Chemicals
[PICCS] Philippines Inventory of Chemicals and Chemical Substances
[KECI] Korea Existing Chemicals Inventory
[AIICS] Australian. Inventory of Industrial Chemical (AIICS)
[ENCS] Japan Inventory of Existing & New Chemical Substances

| US chemical inventory

Component	A	B	C	D	E	F	G	H
Water	×	×	×	×	×	×	×	×

Polyvinyl alcohol	×	×	×	×	×	×	×	×
Acrylic copolymer	×	×	×	×	×	×	×	×
Glycerine	×	×	×	√	√	√	×	×
Poly(methyl methacrylate)	×	×	×	×	×	×	×	×
2-Phenoxyethanol	×	×	×	×	×	×	×	×
Glycerol monolaurate	×	×	×	×	×	×	×	×
Pigment orange 38	×	×	×	×	×	×	×	×
Orthoboric acid	×	×	×	×	×	×	×	×

[A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
[B] US SARA 302- Extremely Hazardous Substance List
[C] US CERCLA- Hazardous Substances List
[D] US Massachusetts Right-to-Know Substance List
[E] US New Jersey Right to Know Hazardous Substance List
[F] US Pennsylvania Right to Know Hazardous Substance List
[G] US New York City Right-to-Know Hazardous Substance List
[H] US California Proposition 65 List

Note:
"√" Indicates that the substance included in the regulations.
"×" No data or not included in the regulations.

16 Other information

| Information on revision

Creation Date	2024/09/23
Revision Date	2024/09/23
Reason for revision	-

| Reference

[1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home。
[2] IARC, website: http://www.iarc.fr/。
[3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/。
[4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple。
[5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp。
[6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/。
[7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg。
[8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/。

| Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists

LC_{50}	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD_{50}	Lethal Dose 50%	NTP	National Toxicology Program
EC_{50}	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P_{OW}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information of section 3 and section 9 is provided by the company listd in section 1 . Other information is from authoritative database and expert assessment.

End of File