



Safety Data Sheet

ASIN/Item No.: BLM 001/Flower Brick Pen-1 Pack
BLM 002/Flower Brick Pen-3 Pack

Brand: BLM Building Pens

Manufacture: Canal Toys

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Date: 2025-11-19

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Fonction/Position/Posición/ Posição/Position/Posizione	Quality Director Canal Toys
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Remark :main MSDS please see next page.

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Ink of marker/Scented Ink of marker

Version: V2.0.1.1
Report No.: HGBZ2509J4S1
Creation Date: 2025/09/02
Revision Date: -

*Prepared in accordance with EU REACH Regulation (REACH 1907/2006 with amendment 2020/878)|GHS (10th Revised Edition)

Part 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Product Name	Ink of marker/Scented Ink of marker
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-
UFI	No information available
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.
1.3 Details of the supplier of the Safety Data Sheet	
Applicant Name	Canal Toys Ltd
Applicant Address	Room 401, 4th Floor, HKC Commercial entre, Dongcheng Avenue No. 5, Zhangmutou Town, Dongguan City, Guangdong Province, P. R. China.
Applicant Post Code	523618
Applicant Telephone	+86-769-8770 0857
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Supplier Fax	+86-769-8770 3510
Supplier E-mail	gary.li@canaltoysasia.com
1.4 Emergency telephone number	
Emergency telephone number	+86-769-8770 0857
Opening hours	24h

Part 2: Hazards identification

2.1 CLP classification according to Regulation (EC) No. 1272/2008 with amendment 2023/707 hazard classification according to GHS
According to Regulation (EC) No 1272/2008 and its amendments and GHS (10th Revised Edition) . Not classified as a dangerous

substance.

2.2 Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

Hazard statements

Hazard statements	Not applicable
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Precautionary statements

◆ Prevention

Prevention	Not applicable
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◆ Response

Response	Not applicable
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◆ Storage

Storage	Not applicable
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◆ Disposal

Disposal	Not applicable
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2.3 Other hazards

◆ Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006 with amendment 2020/878]
Water	No information available
Glycerin	Not PBT/vPvB
Propylene Glycol	Not PBT/vPvB
Fragrance	No information available
Aluminum	Not applicable
Soy Acid	No information available
Yellow14	Not PBT/vPvB
Orange13	Not PBT/vPvB
Blue 15	Not PBT/vPvB
Red 48	Not PBT/vPvB
Violet 19	Not PBT/vPvB
Green 7	No information available
Red 122	Not PBT/vPvB

◆ Results of endocrine disrupting properties assessment

Component	Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605]
Water	No information available
Glycerin	No information available
Propylene Glycol	No information available
Fragrance	No information available

Aluminum	No information available
Soy Acid	No information available
Yellow14	No information available
Orange13	No information available
Blue 15	No information available
Red 48	No information available
Violet 19	No information available
Green 7	No information available
Red 122	No information available

◆ Other

	Not applicable.
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Part 3: Composition/information on ingredients

3.1 Substance/mixture

	Mixture
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Component	Weight %content(or range)	Classification according to Regulation (EC) No. 1272/2008 with amendment 2023/707 [CLP]	SCL, M-factor and ATE
Water CAS No.: 7732-18-5 EC No.: 231-791-2 Index No.: -	62.818- 63.41	Not Classified	-
Glycerin CAS No.: 56-81-5 EC No.: 200-289-5 Index No.: -	21.56- 21.76	Not Classified	-
Propylene Glycol CAS No.: 57-55-6 EC No.: 200-338-0 Index No.: -	9.8	Not Classified	-
Fragrance CAS No.: - EC No.: - Index No.: -	1.6- 2	No information available	-
Aluminum CAS No.: 7429-90-5 EC No.: 231-072-3 Index No.: -	1.176	Not Classified	-
Soy Acid CAS No.: 68308-53-2 EC No.: 269-657-0 Index No.: -	0.784	Not Classified	-
May Contain			
Yellow14 CAS No.: 5468-75-7 EC No.: 226-789-3 Index No.: -	0- 1.47	Not Classified	-
Orange13 CAS No.: 3520-72-7 EC No.: 222-530-3 Index No.: -	0- 0.196	Not Classified	-

Blue 15 CAS No.: 147-14-8 EC No.: 205-685-1 Index No.: -	0- 1.47	Not Classified	-
Red 48 CAS No.: 7023-61-2 EC No.: 230-303-5 Index No.: -	0- 1.47	Not Classified	-
Violet 19 CAS No.: 1047-16-1 EC No.: 213-879-2 Index No.: -	0- 1.47	Not Classified	-
Green 7 CAS No.: 1328-53-6 EC No.: 215-524-7 Index No.: -	0- 0.882	Not Classified	-
Red 122 CAS No.: 980-26-7 EC No.: 213-561-3 Index No.: -	0- 1.47	Not Classified	-

Part 4: First aid measures

4.1 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.

4.2 Most important symptoms/effects, acute and delayed

1	Please see section 11.
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4.3 Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

Part 5: Fire-fighting measures

5.1 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.

5.2 Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.
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5.3 Advice for firefighters

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.

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|---|---|
| 3 | Prevent fire extinguishing water from contaminating surface water or the ground water system. |
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Part 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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|---|---|
| 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 gas/mist/vapour/spray. |

6.2 Environmental precautions

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

6.3 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 | Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. |
| 5 | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container. |

6.4 Reference to other sections

- | | |
|---|--|
| 1 | Personal Protective Equipment advice is contained in Section 8 of the SDS. |
| 2 | Disposal considerations advice is contained in Section 13 of the SDS. |

Part 7: Handling and storage

7.1 Precautions for safe handling

◆ Protective measures

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|---|---|
| 1 | Handling is performed in a well ventilated place. |
| 2 | Wear suitable protective equipment. |
| 3 | Avoid contact with skin and eyes. |

◆ Measures to prevent fire

- | | |
|---|---|
| 1 | Keep away from heat/sparks/open flames/ hot surfaces. |
|---|---|

◆ Measures to prevent aerosol and dust generation

- | | |
|---|-----------------|
| 1 | Not applicable. |
|---|-----------------|

◆ Advice on general occupational hygiene

- | | |
|---|--|
| 1 | Wash hands and face after using of the substances. |
| 2 | Replace the contaminated clothing immediately. |

7.2 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. |

7.3 Specific end use(s)

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|---|--|
| 1 | In addition to use mentioned in the Section 1.2, unforeseen other specific end uses. |
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Part 8: Exposure controls/personal protection

8.1 Control parameters

◆ Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
Glycerin	France	-	10	-	-
	Germany (AGS)	-	200	-	400
	Germany (DFG)	-	200	-	400
	United Kingdom	-	10	-	-
	Belgium	-	10	-	-
	Finland	-	20	-	-
Propylene Glycol	United Kingdom	-	10(particulates)	-	-
	Ireland	150(vapour and particulates)	470(vapour and particulates)	-	-
	Latvia	-	7	-	-
	New Zealand	150	474	-	-
	Norway	25	79	-	-
	Poland	-	100	-	-
Aluminum	France	-	10(inhalable aerosol)	-	-
	Germany (DFG)	-	4	-	-
	United Kingdom	-	10(inhalable fraction);4(respirable fraction)	-	-
	Austria	-	10	-	20
	Belgium	-	1	-	-
	Denmark	-	5(inhalable aerosol)	-	10(inhalable aerosol)

◆ Biological limit values

Biological limit values	No relevant regulations
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◆ 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.

◆ Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Water	Inhalation	No information available	No information available	No information available	No information available
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available

Glycerin	Inhalation	No information available	No information available	No information available	No information available
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
Propylene Glycol	Inhalation	No information available	No information available	10 mg/m3	168 mg/m3
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
Fragrance	Inhalation	No information available	No information available	No information available	No information available
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
Aluminum	Inhalation	No information available	No information available	3.72 mg/m3	3.72 mg/m3
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
Soy Acid	Inhalation	No information available	No information available	No information available	No information available
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
Yellow14	Inhalation	No information available	No information available	3 mg/m3	3 mg/m3
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
Orange13	Inhalation	No information available	No information available	No information available	No information available
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
Blue 15	Inhalation	No information available	No information available	No information available	No information available
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
Red 48	Inhalation	No information available	No information available	No information available	4.4 mg/m3
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
Violet 19	Inhalation	No information available	No information available	3 mg/m3	3 mg/m3
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
Green 7	Inhalation	No information available	No information available	1.25 mg/m3	No information available

	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
Red 122	Inhalation	No information available	No information available	3 mg/m3	147 mg/m3
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available

◆ Predicted No Effect Concentration (PNEC)

Component	A	B	C	D	E	F	G	H
Glycerin	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No potential for bioaccumulation
Propylene Glycol	260 mg/L	26 mg/L	20 g/L	572 mg/kg sediment dw	57.2 mg/kg sediment dw	No hazard identified	50 mg/kg soil dw	No potential for bioaccumulation
Aluminum	No information available	No information available	20 mg/L	No information available	No information available	No hazard identified	No information available	No information available
Yellow14	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No potential to cause toxic effects if accumulated (in higher organisms) via the food chain
Orange13	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No potential to cause toxic effects if accumulated (in higher organisms) via the food chain
Blue 15	100 µg/L	10 µg/L	1 g/L	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No potential for bioaccumulation
Red 48	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No potential for bioaccumulation
Violet 19	No	No	No	No	No	No	No	No

	hazard identified	hazard identified	hazard identified	hazard identified	hazard identified	hazard identified	hazard identified	potential for bioaccumulation
Green 7	100 µg/L	10 µg/L	1 g/L	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No potential for bioaccumulation
Red 122	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No potential for bioaccumulation

Note 1:

A: Freshwater; B: Seawater; C: Sewage treatment plant; D: Sediment (freshwater); E: Sediment (seawater); F: Air; G: Soil; H: Secondary poisoning(Hazard for Predators).

Note 2:

The PNEC values of the remaining components not shown in the product are not available yet.

8.2 Exposure controls

8.2.1 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.

8.2.2 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.

8.2.3 Environmental exposure controls

Environmental exposure controls	No information available
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Part 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Yellow/Pink/Green/Purple/Red/Blue
Odor	No information available
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	No information available
Upper/lower explosive limits[% (v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure	No information available
Relative vapour 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
Kinematic viscosity(mm ² /s)	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Particle characteristics	No information available

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Information with regard to physical hazard classes	No information available
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9.2.2 Other safety characteristics

Other safety characteristics	No information available
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Part 10: Stability and reactivity

Stability and reactivity

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

Part 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 with amendment 2023/707

Ink of marker/Scented Ink of marker	
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

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Orange13	> 5000mg/kg(Rat)	No information available	No information available
Red 122	> 23000mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
Yellow14	> 5000mg/kg(Rat)	No information available	No information available
Glycerin	12600mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available
Propylene Glycol	20000mg/kg(Rat)	20800mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Water	Not Listed	Not Listed
Glycerin	Not Listed	Not Listed
Propylene Glycol	Not Listed	Not Listed
Fragrance	Not Listed	Not Listed
Aluminum	Not Listed	Not Listed
Soy Acid	Not Listed	Not Listed
Yellow14	Not Listed	Not Listed
Orange13	Not Listed	Not Listed
Blue 15	Not Listed	Not Listed
Red 48	Not Listed	Not Listed
Violet 19	Not Listed	Not Listed
Green 7	Not Listed	Not Listed
Red 122	Not Listed	Not Listed

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Component	Endocrine disrupting properties
Water	No information available
Glycerin	No information available
Propylene Glycol	No information available
Fragrance	No information available
Aluminum	No information available
Soy Acid	No information available
Yellow14	No information available
Orange13	No information available
Blue 15	No information available

Red 48	No information available
Violet 19	No information available
Green 7	No information available
Red 122	No information available

11.2.2 Other Information

Other Information	See Section 11.1
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Part 12: Ecological information

12.1 Toxicity

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Blue 15	No information available	EC ₅₀ : > 500mg/L (48h)(Aquatic invertebrates)	No information available
Violet 19	LC ₅₀ : > 100mg/L (96h)(Fish)	EC ₅₀ : > 100mg/L (48h)(Aquatic invertebrates)	ErC ₅₀ : > 100mg/L (72h)(Desmodesmus subspicatus)
Red 48	LC ₅₀ : > 100mg/L (96h)(Fish)	EC ₅₀ : > 100mg/L (48h)(Daphnia magna)	ErC ₅₀ : > 100mg/L (72h)(Algae)
Orange13	LC ₅₀ : > 500mg/L (96h)(Fish)	No information available	No information available
Red 122	LC ₅₀ : > 100mg/L (96h)(Fish)	EC ₅₀ : > 100mg/L (48h)(Daphnia magna)	ErC ₅₀ : > 10mg/L (72h)(Algae)
Yellow14	LC ₅₀ : > 100mg/L (96h)(Fish)	EC ₅₀ : > 100mg/L (48h)(Daphnia magna)	ErC ₅₀ : > 100mg/L (72h)(Algae)
Aluminum	LC ₅₀ : 1.55mg/L (96h)(Fish)	No information available	No information available
Glycerin	LC ₅₀ : 885mg/L (96h)(Fresh water fish)	No information available	No information available
Propylene Glycol	LC ₅₀ : > 100mg/L (96h)(Oryzias latipes)	EC ₅₀ : > 1000mg/L (48h)(Daphnia magna)	ErC ₅₀ : > 1000mg/L (72h)(Pseudokirchneriella subcapitata)

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Violet 19	NOEC: ≥10mg/L(Fish)	No information available	No information available
Red 122	NOEC: ≥10mg/L(Fish)	No information available	No information available
Propylene Glycol	NOEC: >100mg/L(Oryzias latipes)	NOEC: 1000mg/L(Daphnia magna)	NOEC: 1000mg/L(Pseudokirchneriella subcapitata)

12.2 Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Propylene Glycol	Low	Low
Soy Acid	Low	Low
Yellow14	High	High
Blue 15	High	High
Violet 19	High	High

12.3 Bioaccumulative potential

Component	Bioaccumulative potential	Comments
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Propylene Glycol	Low	BCF=1
Soy Acid	Low	Log Kow=7.7294
Yellow14	Low	BCF=4.9
Orange13	Low	BCF=5.6
Blue 15	Low	BCF=33
Violet 19	Low	Log Kow=1.377
Green 7	Low	BCF=74

12.4 Mobility in soil

Component	log Koc	Remark	Data source
Propylene Glycol	0.46	20 °C	ECHA
Soy Acid	4.067		Chemwatch
Yellow14	5.338		Chemwatch
Blue 15	10.000		Chemwatch
Violet 19	3.583		Chemwatch

12.5 Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006 with amendment 2020/878]
Water	No information available
Glycerin	Not PBT/vPvB
Propylene Glycol	Not PBT/vPvB
Fragrance	No information available
Aluminum	Not applicable
Soy Acid	No information available
Yellow14	Not PBT/vPvB
Orange13	Not PBT/vPvB
Blue 15	Not PBT/vPvB
Red 48	Not PBT/vPvB
Violet 19	Not PBT/vPvB
Green 7	No information available
Red 122	Not PBT/vPvB

12.6 Endocrine disrupting properties

Component	Endocrine disrupting properties
Water	No information available
Glycerin	No information available
Propylene Glycol	No information available
Fragrance	No information available
Aluminum	No information available
Soy Acid	No information available

Yellow14	No information available
Orange13	No information available
Blue 15	No information available
Red 48	No information available
Violet 19	No information available
Green 7	No information available
Red 122	No information available

12.7 Other adverse effects

No information available

Part 13: Disposal considerations

13.1 Waste treatment methods

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
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IMDG-CODE

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

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

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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Special precautions for user

	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.
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Maritime 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

Part 15: Regulatory information

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

International chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Glycerin	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Propylene Glycol	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fragrance	×	×	×	×	×	×	×	×	×	×	×	×	×
Aluminum	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Soy Acid	✓	✓	✓	✓	✓	✓	✓	✓	×	✓	×	✓	✓
Yellow14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Orange13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Blue 15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Red 48	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Violet 19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Green 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	✓	✓
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
Water	×	×	×
Glycerin	×	×	×
Propylene Glycol	×	×	×
Fragrance	×	×	×
Aluminum	×	×	×
Soy Acid	×	×	×
Yellow14	×	×	×
Orange13	×	×	×
Blue 15	×	×	×
Red 48	×	×	×
Violet 19	×	×	×

Green 7	×	×	×
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

European chemical inventory

Component	A	B	C	D	E	F	G	H	I
Water	×	×	×	✓	×	×	×	×	×
Glycerin	×	×	×	✓	✓	×	×	×	×
Propylene Glycol	×	×	×	✓	✓	×	×	×	×
Fragrance	×	×	×	×	×	×	×	×	×
Aluminum	×	×	×	✓	✓	×	×	×	×
Soy Acid	×	×	×	✓	×	×	×	×	×
Yellow14	×	×	×	✓	✓	×	×	×	×
Orange13	×	×	×	✓	✓	×	×	×	×
Blue 15	×	×	×	✓	✓	×	×	×	×
Red 48	×	×	×	✓	✓	×	×	×	×
Violet 19	×	×	×	✓	✓	×	×	×	×
Green 7	×	×	×	✓	✓	×	×	×	×
Red 122	×	×	×	✓	✓	×	×	×	×

【A】 Candidate list of Substances of Very High Concern for authorization under EU REACH regulation

【B】 Substances requiring authorisation under EU REACH regulation

【C】 Substances restricted under EU REACH

【D】 Pre-registered substances under EU REACH

【E】 Registered substances under EU REACH

【F】 Substance Evaluation – CoRAP under EU REACH

【G】 List of priority substances under EU water policy (Directive 2455/2001/EC)

【H】 Substances subject to POPs Regulation

【I】 Substances proposed as POPs

Note:

“✓” Indicates that the substance included in the regulations.

“×” No data or not included in the regulations.

German water hazard class(WGK)

Component	WGK	Remark
Glycerin	WGK 1	
Propylene Glycol	WGK 1	
Aluminum	nwg	
Soy Acid	WGK 1	The assessment refers to the unadditivated substance. If additives are added, higher WGK are possible in accordance with the rules specified in Annex 1 No. 5 of the AwSV.
Yellow14	WGK 3	

Orange13	WGK 3	
Blue 15	nwg	
Red 48	WGK 1	
Violet 19	WGK 1	
Green 7	WGK 1	
Red 122	WGK 1	

- 【WGK 1】** slightly hazardous to water
【WGK 2】 obviously hazardous to water
【WGK 3】 highly hazardous to water
【nwg】 non-hazardous to water
【awg】 hazardous to water in general

German technical instructions on air quality control(TA LUFT)

Component	TA LUFT	Remark
Glycerin	Chapter 5.2.5 Organic Substances.The following values, specified as overall carbon, are in all not allowed to be exceeded in exhaust gas:Mass flow:0,50 kg/hr or Mass conc.:50 mg/m ³ At old units with an annual mass flow till 1,5 Mg/a, specified as total carbon, the emissions in exhaust gas are not allowed to exceed 1,5 kg/h.	
Propylene Glycol	Chapter 5.2.5 Organic Substances.The following values, specified as overall carbon, are in all not allowed to be exceeded in exhaust gas:Mass flow:0,50 kg/hr or Mass conc.:50 mg/m ³ At old units with an annual mass flow till 1,5 Mg/a, specified as total carbon, the emissions in exhaust gas are not allowed to exceed 1,5 kg/h.	
Aluminum	Chapter 5.2.1 Overall Dust, including fine dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0.20 kg/hr or Mass conc.:20 mg/m ³ The mass per unit volume of 0.15 g/m ³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0.20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m ³ .	
Yellow14	Chapter 5.2.5 Organic Substances, dust,including fine dust.To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m ³ The mass per unit volume of 0,15 g/m ³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m ³ .	
Blue 15	Chapter 5.2.2 Inorganic dusts. Class III. Also with the presence of several substances of the same class, the following values are in all not	

	allowed to be exceeded in the exhaust gas:Mass flow:5 g/hr or Mass conc.:1 mg/m ³ . Specified as Cu.	
Red 48	Chapter 5.2.5 Organic Substances, dust,including fine dust.To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m ³ The mass per unit volume of 0,15 g/m ³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m ³ .	
Violet 19	Chapter 5.2.5 Organic Substances, dust,including fine dust.To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m ³ The mass per unit volume of 0,15 g/m ³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m ³ .	
Green 7	Chapter 5.2.5 Organic Substances, dust,including fine dust.To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m ³ The mass per unit volume of 0,15 g/m ³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m ³ .	
Red 122	Chapter 5.2.5 Organic Substances, dust,including fine dust.To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m ³ The mass per unit volume of 0,15 g/m ³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m ³ .	

German technical rules for hazardous substances(TRGS)

Component	TRGS	Remark
Water	TRGS 500 TRGS 509 TRGS 510	
Glycerin	TRGS 402 TRGS 500 TRGS 509 TRGS 510 TRGS 800	

Propylene Glycol	TRGS 500 TRGS 509 TRGS 510 TRGS 800	
Aluminum	TRGS 500 TRGS 509 TRGS 510 TRGS 800	
Yellow14	TRGS 500 TRGS 509 TRGS 510 TRGS 800	
Blue 15	TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
Red 48	TRGS 500 TRGS 509 TRGS 510 TRGS 800	
Violet 19	TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
Green 7	TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
Red 122	TRGS 500 TRGS 509 TRGS 510 TRGS 800	

15.2 Chemical safety assessment

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

Part 16: Other information

Information on revision

Creation Date	2025/09/02
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

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation & GHS. 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.