

Safety Data Sheet (SDS) Report

Applicant: LODDIE DODDIE

42006 Remington Ave., Ste. 108 Temecula, CA 92590 USA

SDS number: SZHH0220788702

Issue Date: 2026-06-17

Sample Description:

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

Product Name : Chalk Marker/Liquid Chalk Marker/Marker Pen
Physical State : liquid
Data Received : June 2, 2026
Data Reviewed : June 17, 2026

Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated in accordance with requirements of SOR/2015-17, Hazardous Products Regulations (HPR) , as amended by SOR/2022-272, for details please refer to attached pages.

Authorized By:

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



Anna Wang
Technical Manager

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Intertek Assuris

5th Floor Building No.86, 1198 QinZhou Road (North),
Cao He jing Development Zone, ShangHai China Zip:200233

Tel: +86 021 53397981
E-mail: hers@intertek.com



Chalk Marker/Liquid Chalk Marker/Marker Pen

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272
Issue date: 17 June 2026 Version: 1.0 SDS Number: SZHH0220788702

SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : Chalk Marker/Liquid Chalk Marker/Marker Pen

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Intended for general public
Use of the substance/mixture : Painting and Writing

1.4. Supplier's details

LODDIE DODDIE
42006 Remington Ave., Ste. 108 Temecula, CA 92590 USA
T +1 404.660.3701
zack@loddiedoddie.com

1.5. Emergency phone number

+86-755-89392612 (Language: English)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Not classified

2.2. GHS label elements, including precautionary statements

GHS CA labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
Water	Water AQUA	CAS-No.: 7732-18-5	50.5 – 55.5

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Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
Tripropylene glycol methyl ether	1-[2-(2-Methoxy-1-methylethoxy)-1-methylethoxy]propan-2-ol / Methoxytripropylene glycol / 2-Propanol, 1-(2-(2-methoxy-1-methylethoxy)-1-methylethoxy)-	CAS-No.: 20324-33-8	7 – 7.9
Polyvinyl alcohol	Poly(vinyl alcohol) ; PVA Ethenol, homopolymer / Vinyl alcohol polymer / POLYVINYL ALCOHOL	CAS-No.: 9002-89-5	2 – 2.6
Glycerol	Alcohols Glycerin / Glycerine / Glycerol	CAS-No.: 56-81-5	0.8 – 0.9
May contain			
C.I. Pigment Red 48:4	2-Naphthalenecarboxylic acid, 4-[(5-chloro-4-methyl-2-sulphophenyl)azo]-3-hydroxy-, manganese(2+) salt (1:1) / CI 15865 / Manganate(1-), [4-[[5-chloro-4-methyl-2-(sulfo- .kappa.O)phenyl]azo-.kappa.N1]-3-(hydroxy-.kappa.O)-2-naphthalenecarboxylato(3-)]-, hydrogen	CAS-No.: 5280-66-0	0 – 30.5
C.I. Pigment Violet 19	-	CAS-No.: 1047-16-1	0 – 30.5
Carbon black	Carbon black ; Acetylene black C.I. 77266 / C.I. Pigment Black 6 / C.I. Pigment Black 7	CAS-No.: 1333-86-4	0 – 30.5
C.I. Pigment Green 7	C.I. pigment green 007 C.I. 74260 / C.I. Pigment Green 42 / Copper Phthalocyanine Green	CAS-No.: 1328-53-6/85256-45-7	0 – 30.5
Titanium dioxide	titanium dioxide C.I. 77891 / C.I. Pigment White 6 / Titanium oxide (TiO2)	CAS-No.: 13463-67-7	0 – 28.6
C.I. Acid Blue 90	Hydrogen [4-[4-(p-ethoxyanilino)-4'-[ethyl(m-sulphonatobenzyl)amino]-2'-methylbenzhydrylene]-3-methylcyclohexa-2,5-dien-1-ylidene](ethyl)(m-sulphonatobenzyl)ammonium, monosodium salt / Brilliant Blue G / Benzenemethanaminium, N-[4-[[4-(4-ethoxyphenyl)amino]phenyl][4-[ethyl[(3-sulphophenyl)methyl]amino]-2-methylphenyl]methylene]-3-methyl-2,5-cyclohexadien-1-ylidene]-N-ethyl-3-sulfo-, inner salt, monosodium salt	CAS-No.: 6104-58-1	0 – 28.5
C.I. Pigment Yellow 151	2-[[1-[[[(2,3-Dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]benzoic acid / Benzoic acid, 2-[2-[1-[[[(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]diazanyl]- / Pigment Yellow 151	CAS-No.: 31837-42-0	0 – 28.5
Bisbenzimidazo[2,1-b:2',1'-i]benzo[imn][3,8]phenanthroline-8,17-dione	C.I. 71105 / C.I. Pigment Orange 43 / C.I. Vat Orange 7	CAS-No.: 4424-06-0	0 – 28.5
Aluminum oxide	Aluminumoxide Aluminum oxide / .alpha.-Alumina / Alumina	CAS-No.: 1344-28-1	0 – 20.5

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Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
C.I. Food Red 17:1	2-Naphthalenesulfonic acid, 6-hydroxy-5-[(2-methoxy-5-methyl-4-sulfophenylazo)-, aluminum lake / Aluminium, 6-hydroxy-5-[(2-methoxy-5-methyl-4-sulfophenyl)azo]-2-naphthalenesulfonic acid complex / Food Red 17:1	CAS-No.: 68583-95-9	0 – 20
C.I. Pigment Blue 29	C.I. pigment blue 029 C.I. 77007 / Pigment Blue 29 / Ultramarine Blue	CAS-No.: 57455-37-5	0 – 18.5
ACID RED 18	-	CAS-No.: 2611-82-7	0 – 13.5
Butanamide, 2,2'-[1,2-ethanediylbis(oxy-2,1-phenyleneazo)]bis[N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-3-oxo-	C.I. PIGMENT YELLOW 180 2,2'-[Ethylenebis(oxyphenyl-2,1-eneazo)]bis[N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-3-oxobutyramide / Butanamide, 2,2'-[1,2-ethanediylbis(oxy-2,1-phenylene-2,1-diazenediyl)]bis[N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-3-oxo- / C.I. Pigment Yellow 180 / Pigment Yellow 180	CAS-No.: 77804-81-0	0 – 11.5

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	: Wash skin with plenty of water. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Rinse immediately with plenty of water. Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
Self protection of the first-aider	: Even though no specific hazards are defined, first-aiders should wear eye protection, gloves and disposable half mask. Consider additional protection if repeated or prolonged exposition is likely.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Note to physician:	: Treat symptomatically.
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SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition can lead to the release of irritating gases and vapours.

5.3. Special protective actions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Do not enter fire area without proper protective equipment, including respiratory protection.
Protective equipment for firefighters : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate unnecessary personnel. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
Personal Precautions, Protective Equipment and Emergency Procedures : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Environmental precautions : Avoid release to the environment. Avoid release to the environment. Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information : Dispose of materials or solid residues at an authorized site.
For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".
For further information refer to section 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.
Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.
Packaging materials	: PP BOX/Blister card packing/Paper box packing/PET Box Always store product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Titanium dioxide (13463-67-7)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	10 mg/m ³
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	10 mg/m ³ Total dust 3 mg/m ³ Respirable fraction
Notations and remarks	IARC group 2B carcinogen
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m ³ (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m ³ (Finescale particles. R - Repirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	10 mg/m ³
Notations and remarks	LRT irr
Regulatory reference	ACGIH
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m ³ (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m ³ (Finescale particles. R - Repirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025

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Titanium dioxide (13463-67-7)	
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m ³ (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m ³ (Finescale particles. R - Repirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m ³ (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m ³ (Finescale particles. R - Repirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	10 mg/m ³
OEL STEL	20 mg/m ³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	30 mppcf 10 mg/m ³
OEL STEL	20 mg/m ³
Glycerol (56-81-5)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Glycerin mist
OEL TWA	10 mg/m ³
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Glycerin (mist) # Glycérine (brouillards)
VEMP (OEL TWA EV)	10 mg/m ³
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety # S-2.1, r. 13 - Règlement sur la santé et la sécurité du travail
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Glycerin - mist
OEL TWA	10 mg/m ³ Total 3 mg/m ³ Respirable
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)

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Glycerol (56-81-5)	
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Glycerin mist
Notations and remarks	URT irr
Regulatory reference	ACGIH
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Glycerin mist # Brouillard de glycérine
OEL TWA	10 mg/m ³
OEL STEL	20 mg/m ³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021) # Règlement sur la santé et la sécurité au travail, Règ Nu 003-2016 (Modification R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Glycerin mist # Brouillard de glycérine
OEL TWA	10 mg/m ³
OEL STEL	20 mg/m ³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-124-2018) # Règlement sur la santé et la sécurité au travail R-039-2015 (R-124-2018)
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Glycerin mist
OEL TWA	10 mg/m ³
OEL STEL	20 mg/m ³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	30 mppcf (mist) 10 mg/m ³ (mist)
Aluminum oxide (1344-28-1)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Aluminum oxide (Alumina)
OEL TWA	10 mg/m ³
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWA _{EV})	5 mg/m ³ (containing no Asbestos and <1% Crystalline silica-total dust)
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Aluminum oxide
OEL TWA	10 mg/m ³
OEL STEL	20 mg/m ³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

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Aluminum oxide (1344-28-1)	
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	30 mppcf (Al ₂ O ₃) 10 mg/m ³ (Al ₂ O ₃)
OEL STEL	20 mg/m ³ (Al ₂ O ₃)
Carbon black (1333-86-4)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Carbon black
OEL TWA	3.5 mg/m ³
Regulatory reference	Alberta Regulation 191/2021
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Carbon black
OEL TWA	3 mg/m ³ (inhalable)
Notations and remarks	IARC group 2B carcinogen
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Carbon black
OEL TWA	3 mg/m ³ (inhalable particulate matter)
Notations and remarks	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Carbon black
OEL TWA	3 mg/m ³ (inhalable fraction)
Notations and remarks	Bronchitis
Regulatory reference	ACGIH
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Carbon black
OEL TWA	3 mg/m ³ (inhalable particulate matter)
Notations and remarks	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Carbon black
OEL TWA	3 mg/m ³ (inhalable particulate matter)
Notations and remarks	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025

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Carbon black (1333-86-4)	
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Carbon black
OEL TWA	3 mg/m ³ (inhalable particulate matter)
Notations and remarks	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Carbon black
OEL TWA	3.5 mg/m ³
OEL STEL	7 mg/m ³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	3.5 mg/m ³
OEL STEL	7 mg/m ³

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Impermeable protective gloves. protective gloves

Eye protection:

Chemical goggles or safety glasses. Safety glasses. Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable respiratory equipment in case of insufficient ventilation

Other information:

Do not eat, drink or smoke during use.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid
Colour : No data available

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Odour	: No data available
Odour threshold	: No data available
pH	: 7
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 100°C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Polyvinyl alcohol (9002-89-5)	
LD50 oral rat	23854 mg/kg (Source: NLM_CIP)
Titanium dioxide (13463-67-7)	
LD50 oral rat	> 2000 mg/kg (Source: ECHA)
LD50 dermal	> 10000 mg/kg bodyweight
LC50 Inhalation - Rat	> 5.09 mg/l/4h
Glycerol (56-81-5)	
LD50 oral rat	27200 mg/kg bodyweight Animal: rat, Animal sex: female

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Glycerol (56-81-5)	
LD50 dermal rabbit	> 10 g/kg (Source: NLM_CIP)
LC50 Inhalation - Rat	5.85 mg/l air Animal: rat
LC50 Inhalation - Rat (Dust/Mist)	50100 mg/l
Aluminum oxide (1344-28-1)	
LD50 oral rat	> 15900 mg/kg (Source: ECHA)
LD50 oral	> 10000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 2300 mg/l
Butanamide, 2,2'-[1,2-ethanediylbis(oxy-2,1-phenyleneazo)]bis[N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-3-oxo- (77804-81-0)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
C.I. Pigment Red 48:4 (5280-66-0)	
LD50 dermal rat	> 2500 mg/kg (Source: ECHA_API)
Carbon black (1333-86-4)	
LD50 oral rat	> 10000 mg/kg (Source: ECHA)
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)
C.I. Pigment Green 7 (1328-53-6)	
LD50 oral rat	> 5000 mg/kg (Source: OECD_SIDS)
LD50 dermal rat	> 5000 mg/kg Source: ECHA
C.I. Food Red 17:1 (68583-95-9)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Polyvinyl alcohol (9002-89-5)	
IARC group	3 - Not classifiable
Titanium dioxide(airborne, unbound particles of respirable size) (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
Carbon black(airborne, unbound particles of respirable size) (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: None under normal conditions.

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according to SOR/2015-17, Hazardous Products Regulations (HPR) , as amended by SOR/2022-272

Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

Titanium dioxide (13463-67-7)	
LC50 - Fish [1]	> 10000 mg/l
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Glycerol (56-81-5)	
LC50 - Fish [1]	54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Other aquatic organisms [1]	> 10000 mg/l waterflea

Butanamide, 2,2'-[1,2-ethanediylbis(oxy-2,1-phenyleneazo)]bis[N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-3-oxo- (77804-81-0)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Carbon black (1333-86-4)	
LC50 - Fish [1]	> 1000 mg/l Source: NITE
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna
ErC50 algae	> 10000 mg/l Source: EHCA

C.I. Pigment Green 7 (1328-53-6)	
LC50 - Fish [1]	752.4 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: IUCLID)
EC50 - Crustacea [1]	> 500 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	≥ 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	> 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

C.I. Food Red 17:1 (68583-95-9)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	136.57 mg/l Test organisms (species): Chlorella vulgaris

12.2. Persistence and degradability

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Glycerol (56-81-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	94 % 24h

C.I. Pigment Green 7 (1328-53-6)	
Persistence and degradability	Not rapidly degradable
Biodegradation	< 1 % 28d (OECD 301F)

12.3. Bioaccumulative potential

Glycerol (56-81-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.76

C.I. Acid Blue 90 (6104-58-1)	
Partition coefficient n-octanol/water (Log Pow)	-2.55 (at 20 °C)

Butanamide, 2,2'-[1,2-ethanediylbis(oxy-2,1-phenyleneazo)]bis[N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-3-oxo- (77804-81-0)]	
Partition coefficient n-octanol/water (Log Pow)	4.24 Source: Ecological Structure Activity Relationships

C.I. Pigment Red 48:4 (5280-66-0)	
Partition coefficient n-octanol/water (Log Pow)	-0.1 (at 23 °C)

C.I. Pigment Green 7 (1328-53-6)	
BCF - Fish [1]	0.51 – 74
Partition coefficient n-octanol/water (Log Pow)	(at 23 °C)

C.I. Food Red 17:1 (68583-95-9)	
Partition coefficient n-octanol/water (Log Pow)	2.234 (at 25 °C)

Bisbenzimidazo[2,1-b:2',1'-i]benzo[lmn][3,8]phenanthroline-8,17-dione (4424-06-0)	
Partition coefficient n-octanol/water (Log Pow)	0.26 (at 24 °C (at pH 7)

12.4. Mobility in soil

Butanamide, 2,2'-[1,2-ethanediylbis(oxy-2,1-phenyleneazo)]bis[N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-3-oxo- (77804-81-0)]	
Mobility in soil	36660 Source: EPI Suite

12.5. Other adverse effects

Ozone	: Not classified (Based on available data, the classification criteria are not met)
Other information	: Avoid release to the environment.
Fluorinated greenhouse gases	: No

SECTION 13 Disposal considerations

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.

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Product/Packaging disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations. Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

Ecological waste information : Avoid release to the environment.

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN Number			
Not regulated for transport			
14.2. UN Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group, if applicable			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

TDG

Not regulated

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

Tripropylene glycol methyl ether (20324-33-8)

Listed on the Canadian DSL (Domestic Substances List)

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Polyvinyl alcohol (9002-89-5)

Listed on the Canadian DSL (Domestic Substances List)

Titanium dioxide (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

Glycerol (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

C.I. Acid Blue 90 (6104-58-1)

Listed on the Canadian DSL (Domestic Substances List)

C.I. Pigment Yellow 151 (31837-42-0)

Listed on the Canadian DSL (Domestic Substances List)

Aluminum oxide (1344-28-1)

Listed on the Canadian DSL (Domestic Substances List)

Butanamide, 2,2'-[1,2-ethanediylbis(oxy-2,1-phenyleneazo)]bis[N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-3-oxo- (77804-81-0)

Listed on the Canadian DSL (Domestic Substances List)

C.I. Pigment Red 48:4 (5280-66-0)

Listed on the Canadian DSL (Domestic Substances List)

C.I. Pigment Violet 19 (1047-16-1)

Listed on the Canadian DSL (Domestic Substances List)

Carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

ACID RED 18 (2611-82-7)

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags

Significant New Activity (SNAc) provisions of the Act apply

C.I. Pigment Green 7 (1328-53-6)

Listed on the Canadian DSL (Domestic Substances List)

C.I. Food Red 17:1 (68583-95-9)

Listed on the Canadian DSL (Domestic Substances List)

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C.I. Pigment Blue 29 (57455-37-5)

Listed on the Canadian DSL (Domestic Substances List)

Bisbenzimidazo[2,1-b:2',1'-i]benzo[imn][3,8]phenanthroline-8,17-dione (4424-06-0)

Listed on the Canadian DSL (Domestic Substances List)

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
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Tripropylene glycol methyl ether (20324-33-8)

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Listed on the Japanese ISHL (Industrial Safety and Health Law)

Polyvinyl alcohol (9002-89-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
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Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Titanium dioxide (13463-67-7)

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C.I. Acid Blue 90 (6104-58-1)

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C.I. Pigment Yellow 151 (31837-42-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
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Butanamide, 2,2'-[1,2-ethanediylbis(oxy-2,1-phenyleneazo)]bis[N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-3-oxo- (77804-81-0)

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Listed on the Japanese ISHL (Industrial Safety and Health Law)

C.I. Pigment Red 48:4 (5280-66-0)

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Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

C.I. Pigment Violet 19 (1047-16-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Carbon black (1333-86-4)

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ACID RED 18 (2611-82-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

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C.I. Food Red 17:1 (68583-95-9)

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C.I. Pigment Blue 29 (57455-37-5)

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Bisbenzimidazo[2,1-b:2',1'-i]benzo[lmn][3,8]phenanthroline-8,17-dione (4424-06-0)

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SECTION 16 Other Information

Issue date : 17 June 2026

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.