



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

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MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product and Company Identification

1.1 Product Name: Sodium Propionate

1.2 Product Code: SOPNL98

1.3 Relevant identified uses of the substance or mixture and uses advised against Identified uses:

Laboratory chemicals, Manufacture of substances

1.4 Company Identification:

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Section 2 - Hazards Identification

2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements:

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

2.2.1 Hazard classification

Acute Tox. 4 (41.6%)

Skin Irrit. 2 (14.9%)

Eye Irrit. 2 (39.2%)

STOT SE 3 (14.9%)

2.3 Signal:

Warning

2.4 Hazard Statements:

H312 (41.6%): Harmful in contact with skin

H315 (14.9%): Causes skin irritation

H319 (39.2%): Causes serious eye irritation

H335 (14.9%): May cause respiratory irritation

2.5 Precautionary Statement Codes:



Prevention:

- P261 – Avoid breathing dust, fumes, gas, mist, vapors, or spray.
- P264 – Wash hands, forearms, and exposed areas thoroughly after handling.
- P264+P265 – Wash thoroughly after handling and avoid contact with eyes before eating, drinking, or smoking.
- P271 – Use only outdoors or in a well-ventilated area.
- P280 – Wear protective gloves, protective clothing, eye protection, and face protection as required.

Response:

- P302+P352 – IF ON SKIN: Wash with plenty of water and soap.
- P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do—continue rinsing.
- P317 – Get medical help if you feel unwell.
- P319 – Seek immediate medical attention if exposed or concerned.
- P321 – Specific treatment may be required (refer to the Safety Data Sheet or medical guidance).
- P332+P317 – If skin irritation occurs, seek medical attention.
- P337+P317 – If eye irritation persists, seek medical attention.

Handling & Containment:

- P362+P364 – Take off contaminated clothing and wash it before reuse.

Storage:

- P403+P233 – Store in a well-ventilated place. Keep the container tightly closed.
- P405 – Store locked up.

Disposal:



- P501 – Dispose of contents and container in accordance with local, regional, national, and international regulations.

2.6 Potential Chronic Health Effects:

2.6.1 Carcinogenic effects:

Not available.

2.6.2 Mutagenic effects:

Not available.

2.6.3 Teratogenic effects:

Not available.

2.6.4 Developmental toxicity:

Not available.

2.7 Hazards not otherwise classified (HNOC):

None identified

2.8 Other hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

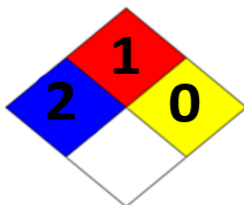
Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

2.9 Pictogram:



2.10 NFPA rating:



NFPA scale (0-4)



2.11 HMIS rating:

Health	2
Flammability	1
Physical Hazard	0
Personal protection	E

HMIS scale (0-4)

Section 3 - Composition / Information on Ingredients

3.1 Chemical Name: Sodium Propionate

3.2 Synonym: Propionic acid sodium salt

3.3 Molecular Formula: C₃H₅O₂Na

3.4 Molecular Weight: 96.06 g/mol

3.5 CAS Number: 137-40-6

3.6 EC Number: 205-290-4

3.7 Purity: 100 %

Section 4 - First Aid Measures

4.1 Description of first-aid measures:

4.1.1 Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

4.1.2 Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

4.1.3 Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

4.1.4 Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.



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4.1.5 Serious Inhalation:

Not available.

4.1.6 Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

Section 5 - Fire-Fighting Measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

5.1.2 Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Flammability of the Product:

May be combustible at high temperature.

5.3 Auto-Ignition Temperature:

Not available.

5.4 Flash Points:

> 250 °C / > 482°F

5.5 Flammable Limits:

Not available.

5.6 Products of Combustion:

Some metallic oxides.

5.7 Fire Hazards in Presence of Various Substances:

Slightly flammable to flammable in presence of heat.

5.8 Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact- Not available. Slightly explosive in presence of open flames and sparks.

5.9 Special hazards arising from the substance or mixture:



Section 5 - Fire-Fighting Measures

Carbon monoxide (CO), Carbon oxides, Sodium oxides Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

5.10 Advice for firefighters:

In the event of fire, wear self-contained breathing apparatus.

5.11 Further information:

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use full personal protective equipment. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.1.1 Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

6.1.2 For non-emergency personnel

Wear a self-contained breathing apparatus and chemical protective clothing. Remove persons to safety.

6.1.3 For emergency responders

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions: Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.3.1 Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

6.3.2 Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

6.4 Reference to other sections:

For disposal see section 13.



Section 7 - Handling and Storage

7.1 Precautions for safe handling:



Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

7.1.1 Advices on general occupational hygiene:

Handle and open container with care.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Storage conditions:

Keep container tightly closed, away from sunlight.

7.2.2 Storage Class:

Storage Class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8 - Exposure Controls / Personal Protection

8.1 Exposure controls:

8.1.1 Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

8.2 Control parameters:

8.2.1 National occupational exposure limits

United States

Components	CAS No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Propionate	6700-17-0	None	None	None	None



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Section 8 - Exposure Controls / Personal Protection

Canada

Components	CAS No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Propionate	6700-17-0	None	None	None	None

Australia and Mexico

Components	CAS No.	Australia	Mexico
Sodium Propionate	6700-17-0	None	None

8.3 Individual protection measures, such as personal protective equipment:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

8.3.1 Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

8.3.2 Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).



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Section 8 - Exposure Controls / Personal Protection

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

8.3.3 Respiratory protection

Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

8.4 Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

8.5 Exposure Limits:

Not available.

8.6 Hygiene measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance Form	Free flowing powder
Color	White
Odour	no data available
Solubility	Water Solubility- 1000g/l at 25 °C, Alcohol Solubility- 1538g/l at 25 °C
pH	8.0-10.5 100g/L (20°C)
Boiling Point	> 500 °C
Vapor Pressure	< 0.1hPa at 20 °C - OECD Test Guideline 104
Flash Point	>250°C



Partition	< 0.3 at 20 °C- OECD Test Guideline 117 - Bioaccumulation is not expected.
Density	1.51 g/cm ³ at 20 °C - OECD Test Guideline 109
Relative density	1.51 at 20 °C - OECD Test Guideline 109
Particle characteristics	No data available
Explosive properties	no data available
Oxidizing properties	none
Water solubility	no data available
Decomposition temperature	no data available
9.2 Other information:	no data available

Section 10 - Stability and Reactivity

10.1 Reactivity:

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Stability:

The product is stable at recommended conditions.

10.3 Possibility of hazardous reactions:

Violent reactions possible with: Strong oxidizing agents

10.3 Instability Temperature:

Not available.

10.4 Conditions to avoid:

Avoid moisture, Direct sunlight. Air contact.

10.5 Conditions of Instability:

Excess heat, incompatible materials

10.6 Incompatibility with various substances:

Reactive with oxidizing agents. Strong acids/alkalis.

10.7 Corrosivity:

Non-corrosive in presence of glass.

10.8 Hazardous decomposition products:

Carbon oxides, Sodium oxides

10.9 Other decomposition products:

No data available

10.10 In the event of fire:

See section 5



Section 11 - Toxicological Information

11.1 Routes of Entry:

Inhalation. Ingestion.

11.2 Toxicity to Animals:

11.2.1 Acute toxicity

LD50 Oral - Rat - male and female - > 6.500 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - 4 h - > 5.400 mg/l - dust/mist

Remarks: (RTECS)

LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

LD50/oral/mouse = 6332 mg/kg

LD50/dermal/rabbit = 1640 mg/kg

11.2.2 Chronic Toxicity:

NOAEL (No-Observed-Adverse-Effect Level): In a 90-day dietary study on dogs, the NOAEL was determined to be 0.3% propionic acid in the diet, based on the absence of adverse epithelial effects.

11.3 Chronic Effects on Humans:

Not available.

11.3.1 Other Toxic Effects on Humans:

Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

11.4 Special Remarks on Toxicity to Animals:

Not available.

11.5 Special Remarks on Chronic Effects on Humans:

Not available.

11.6 Acute Potential Health Effects:

11.6.1 Skin corrosion/irritation:

Skin - reconstructed human epidermis (RhE)

Result: No skin irritation - 42 min

(OECD Test Guideline 439)

11.6.2 Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation - 72 h

(OECD Test Guideline 405)



Section 11 - Toxicological Information

11.6.3 Respiratory or skin sensitization

No data available

11.6.4 Inhalation:

Sodium propionate is considered to have low toxicity by inhalation, though fine particles can be an irritant to respiratory passages.

11.7 Germ cell mutagenicity:

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster fibroblasts

Metabolic activation: without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Remarks: (Lit.)

11.8 Carcinogenicity:

IARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.

NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.

OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

11.9 Reproductive toxicity:

No information available.

11.10 Specific target organ toxicity STOT - single exposure:

No information available.

11.11 Specific target organ toxicity STOT - repeated exposure:

No information available.

11.12 Aspiration hazard:

No information available.



Section 11 - Toxicological Information

11.13 Geno toxicity:

Sodium propionate is not classified as mutagenic or genotoxic.

11.14 Reproductive Toxicity:

No adverse effects on fertility or development have been observed in relevant animal studies.

11.15 Additional Information:

Endocrine disrupting properties

Product: Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 12 - Ecological Information

12.1 Toxicity:

Toxicity to Daphnia and other aquatic invertebrates:

Static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)

LC50 - Oncorhynchus mykiss (rainbow trout) - >100 mg/L (96-hour)

LC50 - Pimephales promelas - 4390 - 5120 mg/L (96h flow-through)

Toxicity to algae

Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - > 80,6 mg/l - 72 h (OECD Test Guideline 201)

12.2 Persistence and degradability:

12.2.1 Biodegradability

aerobic - Exposure time 28 d Result: 92.9 % - Readily biodegradable (OECD Test Guideline 301D).

12.2.2 Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

12.2.3 Toxicity of the Products of Biodegradation:

The product itself and its products of degradation are not toxic.

12.2.4 Special Remarks on the Products of Biodegradation:

Not available.

12.3 BOD5 and COD:

Not available.

12.4 Bio-accumulative Potential:

Bioaccumulation Factor (BCF): Less than 100, indicating low potential for bioaccumulation in



Section 12 - Ecological Information

aquatic organisms.

12.5 Mobility in Soil:

Sodium propionate degrades rapidly and is readily utilized by soil microorganisms, reducing any long-term environmental impact in terrestrial settings.

12.6 Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.7 Environmental Precautions:

Although sodium propionate is generally low in toxicity, it should be prevented from entering large water bodies to avoid increased biological oxygen demand (BOD), which could indirectly affect aquatic life by depleting oxygen levels. This format aligns with standard MSDS requirements for Sections 11 and 12, providing clear and concise information on sodium propionate's toxicological and ecological profiles.

12.8 Endocrine disrupting properties:

Product: Assessment:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 13 - Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14 - Transport Information

14.1 UN number:

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name:

ADR/RID: **Not dangerous goods**

IMDG: **Not dangerous goods**

IATA: **Not dangerous goods**

14.3 Transport hazard class(es):

ADR/RID: - IMDG: - IATA: -



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14.4 Packaging group:

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards:

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user: No data available

14.7 Further information: Not classified as dangerous in the meaning of transport regulations.

14.8 DOT Classification: Not a DOT controlled material.

Section 15 - Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Sodium Propionate

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): R36- Irritating to eyes. S24/25- Avoid contact with skin and eyes. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

OSHA - Occupational Safety and Health Administration

Not applicable

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

California Proposition 65: This product does not contain any Proposition 65 chemicals.



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Section 15 - Regulatory Information

U.S. State Right-to-Know Regulations

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.



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Section 16 - Other Information

Disclaimer: This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road;

AIIC - Australian Inventory of Industrial Chemicals;

ASTM - American Society for the Testing of Materials;

bw - Body weight;

CMR - Carcinogen, Mutagen or Reproductive Toxicant;

DIN - Standard of the German Institute for Standardization;

DSL - Domestic Substances List (Canada);

EC_x - Concentration associated with x% response;

EL_x - Loading rate associated with x% response;

EmS - Emergency Schedule;

ENCS - Existing and New Chemical Substances (Japan);

ErC_x - Concentration associated with x% growth rate response;

GHS - Globally Harmonized System;

GLP - Good Laboratory Practice;

IARC - International Agency for Research on Cancer;

IATA - International Air Transport Association;

IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;

IC₅₀ - Half maximal inhibitory concentration;

ICAO - International Civil Aviation Organization;

IECSC - Inventory of Existing Chemical Substances in China;

IMDG - International Maritime Dangerous Goods;

IMO - International Maritime Organization;

ISHL - Industrial Safety and Health Law (Japan);

ISO - International Organisation for Standardization;

KECI - Korea Existing Chemicals Inventory;

LC₅₀ - Lethal Concentration to 50 % of a test population;

LD₅₀ - Lethal Dose to 50% of a test population (Median Lethal Dose);

MARPOL - International Convention for the Prevention of Pollution from Ships;



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Section 16 - Other Information

n.o.s. - Not Otherwise Specified;
NO(A)EC - No Observed (Adverse) Effect Concentration;
NO(A)EL - No Observed (Adverse) Effect Level;
NOELR - No Observable Effect Loading Rate;
NZIoC - New Zealand Inventory of Chemicals;
OECD - Organization for Economic Co-operation and Development;
OPPTS - Office of Chemical Safety and Pollution Prevention;
PBT - Persistent, Bio-accumulative and Toxic substance;
PICCS - Philippines Inventory of Chemicals and Chemical Substances;
(Q)SAR - (Quantitative) Structure Activity Relationship;
REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals;
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail;
SADT - Self-Accelerating Decomposition Temperature;
SDS - Safety Data Sheet;
TCSI - Taiwan Chemical Substance Inventory;
TECI - Thailand Existing Chemicals Inventory;
TSCA - Toxic Substances Control Act (United States);
UN - United Nations;
UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;
vPvB - Very Persistent and Very Bio-accumulative

Issue Date: April, 2024

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Revision No.: 03