

SAFETY DATA SHEET

PREVENTOL PM 310



Version Revision Date: SDS Number: Date of last issue: 10/11/2020
2.0 02/28/2022 203000009642 Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : PREVENTOL PM 310
Product code : 000000000062000683
EPA registration number : 39967-146

Manufacturer or supplier's details

Company : LANXESS Corporation
 Product Safety & Regulatory Affairs
 111 RIDC Park West Drive
 Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS
 (412) 809-1000

Emergency telephone : CHEMTREC (800) 424-9300 or
 (703) 527-3887 (Outside U.S.A) and mention CCN12916.
 Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use


Recommended use : Biocide for industrial application

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Skin corrosion : Category 1C
Serious eye damage : Category 1
Skin sensitization : Category 1

GHS label elements

Hazard pictograms : 

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Signal Word : Danger

Hazard Statements : Harmful if swallowed or if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.

Storage:
Store locked up.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
bronopol	52-51-7	>= 10 - < 20
2-methyl-2H-isothiazol-3-one	2682-20-4	>= 5 - < 10

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Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

- If inhaled : Get medical attention immediately.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If unconscious, place in recovery position and get medical attention immediately.
Maintain open airway.
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Continue to rinse for 30 minutes.
Chemical burns must be treated promptly by a physician.
Wash contaminated clothing before reuse.
- In case of eye contact : Get medical attention immediately.
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
Remove contact lenses, if present and easy to do. Continue rinsing.
In case of contact, immediately flush eyes with plenty of water for at least 30 minutes.
Chemical burns must be treated promptly by a physician.
- If swallowed : Get medical attention immediately.
Rinse mouth with water.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Give small amounts of water to drink.
Do not induce vomiting unless directed to do by medical personnel.
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Chemical burns must be treated promptly by a physician.
Never give anything by mouth to an unconscious person.
If unconscious, place in recovery position and get medical attention immediately.
Maintain open airway.
Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms and effects, both acute and delayed

- Symptoms : Ingestion: Corrosive with symptoms of coughing, burning, ulceration, and pain.
Symptoms of ingestion may include abdominal pain, nausea,

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vomiting, and diarrhea.
Eye: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.
Skin: Causes irritation with symptoms of reddening, itching, and swelling.
Skin: Reddening, burning, and possible permanent damage. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.
Inhalation may provoke the following symptoms:
May cause pulmonary edema with symptoms of breathing difficulty and tightness of chest.

Effects : Harmful if swallowed or if inhaled.
May cause an allergic skin reaction.
Causes serious eye damage.
Causes severe burns.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
Halogenated compounds
Sulfur oxides

Further information : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
If potential for exposure exists refer to Section 8 for specific

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personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.
Evacuate personnel to safe areas.
Keep unnecessary and unprotected personnel from entering.
Do not touch or walk through spilled material.
Do not breathe vapors or spray mist.
Provide adequate ventilation.
In case of inadequate ventilation wear respiratory protection.
Put on appropriate personal protection equipment.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so.
Move containers from spill area.
Keep people away from and upwind of spill/leak.
Wash spillages into an effluent treatment plant or proceed as follows.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Dispose of wastes in an approved waste disposal facility.
Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Remove contaminated clothing and protective equipment before entering eating areas.
Workers should wash hands and face before eating, drinking and smoking.
Put on appropriate personal protection equipment.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Avoid inhalation, ingestion and contact with skin and eyes.
Use only with adequate ventilation.
Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.
- Conditions for safe storage : Store in accordance with local regulations.
Store in original container protected from direct sunlight in a

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dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.
Keep containers sealed until ready for use.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not store in unlabeled containers.
Use appropriate container to avoid environmental contamination.
Empty containers retain residue and can be dangerous.
Do not reuse container.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protective equipment

Respiratory protection : NIOSH approved, air-purifying organic vapor respirator. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection

Material : Polychloroprene - CR
Break through time : < 60 min

Material : Polyvinyl chloride - PVC
Break through time : < 60 min

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Tightly fitting safety goggles
If inhalation hazards exist, a full-face respirator may be required instead.

Skin and body protection : Chemical resistant apron
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Wash hands, forearms and face thoroughly after handling

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chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	colourless to yellow
Odor	:	odorless
Odor Threshold	:	No data available
pH	:	6.6 Concentration: 10 %
Melting point/range	:	21 °F / -6 °C
Boiling point/boiling range	:	216 °F / 102 °C (1,013 hPa)
Flash point	:	> 212 °F / > 100 °C Method: DIN EN ISO 2719/A, closed cup
Evaporation rate	:	No data available
Self-ignition	:	No data available
Burning number	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	1.097 g/cm ³ (68 °F / 20 °C)

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Solubility(ies)
Water solubility : No data available
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Ignition temperature : > 1112 °F / > 600 °C
Decomposition temperature : No data available
Viscosity
Viscosity, dynamic : 2.3 mPa.s
Viscosity, kinematic : 2.1 mm²/s (68 °F / 20 °C)
Explosive properties : No data available
Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : The product is stable.
Possibility of hazardous reactions : None reasonably foreseeable.
Conditions to avoid : No specific data.
Incompatible materials : No specific data.
Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Information on likely routes of exposure

Inhalation
Eye contact
Skin contact
Ingestion

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Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity : Acute toxicity estimate: 563.94 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 2.54 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 3,456 mg/kg
Method: Calculation method

Components:

bronopol:

Acute oral toxicity : LD50 (Rat): 193 - 211 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 0.588 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402

2-methyl-2H-isothiazol-3-one:

Acute oral toxicity : LD50 (Rat, female): 183 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit, male): 218 mg/kg

Skin corrosion/irritation

Causes severe burns.

Components:

bronopol:

Species : Rabbit
Remarks : No skin irritation

2-methyl-2H-isothiazol-3-one:

Result : Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14

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Test system: Mammalian-Animal
Metabolic activation: with and without metabolic activation
Result: negative
GLP: yes

Genotoxicity in vivo : Species: Mammalian-Animal
Application Route: Oral
Exposure time: 72 h
Dose: 160 mg/kg
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Species: Mammalian-Animal
Application Route: Oral
Exposure time: 4 d
Method: OECD Test Guideline 486
Result: negative
GLP: yes

2-methyl-2H-isothiazol-3-one:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Carcinogenicity

Not classified based on available information.

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Components:

bronopol:

Species : Rat, male and female
Application Route : Oral
Exposure time : 104 weeks
Dose : 7 mg/kg body weight
Result : negative

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

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

bronopol:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Duration of Single Treatment: 19 Weeks
General Toxicity Parent: NOAEL: > 40 mg/kg body weight
General Toxicity F1: NOAEL: > 40 mg/kg body weight
Method: OECD Test Guideline 415

STOT-single exposure

Not classified based on available information.

Components:

bronopol:

Routes of exposure : Inhalation
Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

bronopol:

- Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 11 mg/l
Exposure time: 96 h
Method: EPA OPP 72-1 (Fish Acute Toxicity Test)
GLP: yes
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 1.08 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water
- Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (microalgae)): 0.25 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water
- NOEC (*Pseudokirchneriella subcapitata* (microalgae)): 0.03 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0.06 mg/l
Exposure time: 21 Days
Method: OECD Test Guideline 211
GLP: yes
Remarks: Fresh water

2-methyl-2H-isothiazol-3-one:

- Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): > 150 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.87 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (microalgae)): 0.157 mg/l
Exposure time: 72 h

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NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.0104 mg/l
Exposure time: 96 h

Toxicity to microorganisms : EC50 (activated sludge): 31.7 mg/l
Exposure time: 3 h

Persistence and degradability

Components:

bronopol:

Biodegradability : aerobic
Result: Readily biodegradable.
Biodegradation: 51 - 57 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

2-methyl-2H-isothiazol-3-one:

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

Components:

bronopol:

Bioaccumulation : Bioconcentration factor (BCF): 3.16
Partition coefficient: n-octanol/water : log Pow: -0.42
Method: Calculated value

2-methyl-2H-isothiazol-3-one:

Partition coefficient: n-octanol/water : log Pow: -0.32

Mobility in soil

Components:

bronopol:

Distribution among environmental compartments : Koc: 5

Other adverse effects

No data available

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste from residues : The generation of waste should be avoided or minimized wherever possible.
This material and its container must be disposed of in a safe way.
Empty containers retain product residue; observe all precautions for product.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 1760
Proper shipping name : Corrosive liquid, n.o.s.
(2-METHYL-4-ISOTHIAZOLIN-3-ONE, BRONOPOL)
Class : 8
Packing group : III
Labels : 8



Packing instruction (cargo aircraft) : 856 : 60.00 L
Packing instruction (passenger aircraft) : 852 : 5.00 L
Environmentally hazardous : yes



IMDG-Code

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UN number : UN 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S.
(2-METHYL-4-ISOTHIAZOLIN-3-ONE, BRONOPOL)
Class : 8
Packing group : III
Labels : 8



EmS Code : F-A, S-B
Marine pollutant : yes



Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 1760
Proper shipping name : Corrosive liquids, n.o.s.
(2-METHYL-4-ISOTHIAZOLIN-3-ONE)
Class : 8
Packing group : III
Labels : 8



ERG Code : 154
Marine pollutant : yes(BRONOPOL)



Hazard and Handling Notes.

Slightly corrosive., Environmentally hazardous substance., Keep separated from foodstuffs

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet.

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Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Respiratory or skin sensitization
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

water	7732-18-5	>= 75 - < 90
bronopol	52-51-7	>= 10 - < 20
2-methyl-2H-isothiazol-3-one	2682-20-4	>= 5 - < 10

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

TSCA inventory

TSCA : This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

TSCA list

No substances are subject to TSCA 12(b) export notification requirements.

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:
2-methyl-2H-isothiazol-3-one 2682-20-4

FIFRA information

EPA registration number : 39967-146

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This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

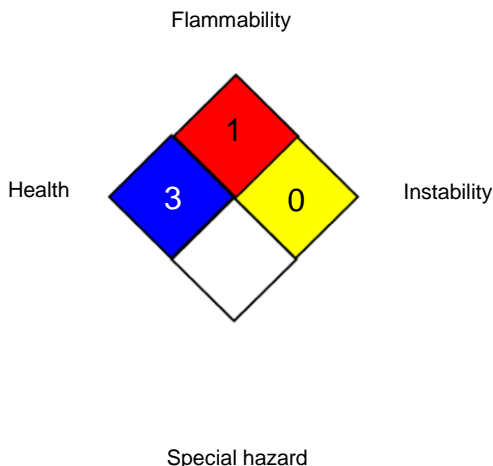
Signal Word : DANGER

Hazard Statements : Causes eye and skin burns. May be fatal if inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if swallowed or absorbed through skin.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	/	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the

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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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - 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 Bioaccumulative

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.