

# SAFETY DATA SHEET

## PREVENTOL A 6 PRESERVATIVE

Version 1.0      Revision Date: 12/02/2021      SDS Number: 203000019656      Date of last issue: -  
Country / Language: US / EN

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### SECTION 1. IDENTIFICATION

Product name : PREVENTOL A 6 PRESERVATIVE

Product code : 00000000062608538

#### 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

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### SECTION 2. HAZARDS IDENTIFICATION

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


Combustible dust

Carcinogenicity : Category 2

Specific target organ toxicity : Category 2 (Blood)  
- single exposure

Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure

#### GHS label elements

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.  
May cause respiratory irritation.  
Suspected of causing cancer.

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May cause damage to organs (Blood).

Precautionary Statements :

**Prevention:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe 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.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
IF exposed or concerned: Call a POISON CENTER/ doctor.  
IF exposed or concerned: Get medical advice/ attention.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

**Disposal:**

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

**Other hazards**

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
diuron	330-54-1	>=98

### SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air immediately. Get medical attention immediately.  
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.

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The exposed person may need to be kept under medical surveillance for 48 hours.  
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 : Get medical attention immediately.  
Wash skin immediately with plenty of water and soap. Subsequent cleansing with polyethyleneglycol 400, then again with water and soap.  
Remove contaminated clothing and shoes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Get medical attention if symptoms appear.
- If swallowed : Rinse mouth with water.  
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.  
If unconscious, place in recovery position and get medical attention immediately.  
Never give anything by mouth to an unconscious person.  
Maintain open airway.

### Most important symptoms and effects, both acute and delayed

- Symptoms : May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.  
Skin, Ingestion, Inhalation: May cause methemoglobin formation resulting in a reduced ability of the blood to carry oxygen.  
Adverse symptoms sometimes include the following:  
carcinogenic effects
- Effects : May cause respiratory irritation.  
Suspected of causing cancer.  
May cause damage to organs.
- Notes to physician : Treat symptomatically.  
Immediately give oxygen if signs of cyanosis (lips, ears, fingernails). Spontaneous reversal of methemoglobin can occur after termination of exposure. Cyanosis alone does not require treatment. Provide supportive measures only unless there are clinical signs/symptoms of hypoxia other than cyanosis, or if methemoglobin levels are >30%. Methylene blue may be used if clinically indicated. Hyperbaric oxygen therapy should be considered if methylene blue therapy is not effective or contraindicated (G6PD deficiency). Consider exchange transfusions for severe cases that are refractory to other treatment. Methemoglobin development may be delayed and victim should

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be observed for at least 6 hours. Hemolysis may appear 24 hours or more after exposure and may cause acute renal failure and arrhythmias. Patients with significant exposures should be monitored for hypoxia and hemolysis for up to 7 days after exposure.

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Halogenated compounds
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
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### 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.  
Put on appropriate personal protection equipment.  
Do not touch or walk through spilled material.  
Evacuate unnecessary personnel.  
Keep unnecessary and unprotected personnel from entering.  
Provide adequate ventilation.  
Do not breathe vapors, aerosols.
- 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.  
Wash spillages into an effluent treatment plant or proceed as
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follows.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Dispose of wastes in an approved waste disposal facility. Do not allow into the sewerage system, surface waters or groundwater or into the soil.

Contaminated absorbent material may pose the same hazard as the spilled product.

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### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).  
Avoid inhalation, ingestion and contact with skin and eyes.  
Use only with adequate ventilation.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.  
Electrical equipment should be protected to the appropriate standard.  
Take precautionary measures against static discharges.  
Empty containers retain product residue; observe all precautions for product.  
Do not re-use empty containers.  
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.  
Use non-sparking tools and equipment. Consult National Fire Protection Association (NFPA) 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids for details on the safe handling and equipment design.

Conditions for safe storage : Store in accordance with local regulations.  
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.  
Store away from incompatible materials (see section 10) and food and drink.  
Keep containers sealed until ready for use.  
Keep away from heat and sources of ignition.  
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 contamina-

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tion.  
Empty containers retain residue and can be dangerous.  
Do not reuse container.

Recommended storage temperature : < 104 °F / < 40 °C

Further information on storage stability : Stable under recommended storage conditions.

Keep in a dry place.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
diuron	330-54-1	TWA	10 mg/m <sup>3</sup>	ACGIH

**Engineering measures** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Personal protective equipment

**Respiratory protection** : The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline.  
NIOSH approved, air-purifying particulate respirator with N-95 filters.

**Hand protection**  
Material : Polyvinyl chloride - PVC  
Wearing time : < 60 min

Material : Butyl rubber - IIR  
Wearing time : < 60 min

Material : Nitrile rubber - NBR  
Wearing time : < 60 min

**Eye protection** : Safety glasses with side-shields  
Tightly fitting safety goggles

**Skin and body protection** : Wear suitable protective clothing.  
Impervious clothing  
Choose body protection according to the amount and con-

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centration of the dangerous substance at the work place.

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

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Physical state : solid

Color : White to yellowish.

Odor : amine-like

Odor Threshold : No data available

Melting point/range : 309 - 318 °F / 154 - 159 °C

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : May form explosive dust-air mixture.

Self-ignition : 754 °F / 401 °C  
Autoignition temperature

Burning number : 3 (68 °F / 20 °C)  
Method: VDI 2263-1

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : < 0.0001 hPa (68 °F / 20 °C)

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Relative density : No data available

Density : 1.453 g/cm<sup>3</sup> (68 °F / 20 °C)

Bulk density : 280 - 370 kg/m<sup>3</sup>

Solubility(ies)  
Water solubility : 0.0285 - 0.029 g/l

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Ignition temperature : 482 °F / 250 °C

Decomposition temperature : > 392 °F / > 200 °C

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Dust explosion class : St1

Particle size : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.  
Dust can form an explosive mixture in air.

Conditions to avoid : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).  
Take precautionary measures against static discharges.  
Avoid dust accumulation in enclosed space.  
In the case of dusty organic products the possibility of a dust explosion should always be considered.

Incompatible materials : Incompatible with oxidizing agents.



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Hazardous decomposition products : No hazardous decomposition products are known.

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### SECTION 11. TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Not classified based on available information.

#### Components:

##### diuron:

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.05 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

##### diuron:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### diuron:

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

#### Respiratory or skin sensitization

##### Skin sensitization

Not classified based on available information.

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### Respiratory sensitization

Not classified based on available information.

#### Components:

##### diuron:

Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.  
GLP : yes

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### diuron:

Genotoxicity in vitro : Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

### Carcinogenicity

Suspected of causing cancer.

#### Components:

##### diuron:

Species : Rat, male  
Application Route : Oral  
NOAEL : 1 - 10 mg/kg body weight  
Method : OECD Test Guideline 453  
Result : equivocal

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**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.



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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### diuron:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 14.7 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.4 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Fresh water
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 0.022 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Fresh water
- NOEC (Desmodesmus subspicatus (green algae)): 0.0032 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Fresh water
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.41 mg/l  
Exposure time: 28 Days  
Method: OECD Test Guideline 204  
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.56 mg/l  
Exposure time: 21 Days  
Method: OECD Test Guideline 211  
Remarks: Fresh water
- Toxicity to microorganisms : EC50 (activated sludge): 3,080 mg/l  
Exposure time: 0.5 h  
Method: OECD Test Guideline 209

#### Persistence and degradability

##### Components:

##### diuron:

- Biodegradability : aerobic  
Result: Not readily biodegradable.  
Biodegradation: 0 %

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Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

### Bioaccumulative potential

#### Components:

##### diuron:

Bioaccumulation : Bioconcentration factor (BCF): 57.2

Partition coefficient: n-octanol/water : log Pow: 2.89  
Method: Calculated value

#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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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.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

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### IATA-DGR

UN/ID No. : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(DIURON)  
Class : 9  
Packing group : III  
Labels : 9



Packing instruction (cargo aircraft) : 956 : 400.00 KG  
Packing instruction (passenger aircraft) : 956 : 400.00 KG  
Environmentally hazardous : yes



### IMDG-Code

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(DIURON)  
Class : 9  
Packing group : III  
Labels : 9



EmS Code : F-A, S-F  
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 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(DIURON)

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Class : 9  
Packing group : III  
Labels : 9  
:



ERG Code : 171  
RQ : 102.04 lb  
Marine pollutant : yes



The U.S. DOT regulations in 49 CFR 172.102 permit this material to ship as an Environmentally Hazardous Substance, Class 9, using Special Provision 146.

### Hazard and Handling Notes.

Environmentally hazardous substance., Has a slight odour., Keep dry., 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. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
diuron	330-54-1	100	102

### 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** : Combustible dust  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

diuron                      330-54-1                      98 %

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### US State Regulations

#### Massachusetts Right To Know

diuron      330-54-1      >= 98

#### Pennsylvania Right To Know

diuron      330-54-1      >= 98

#### California Prop. 65

WARNING: This product can expose you to chemicals including diuron, 3,4,3',4'-tetrachloroazobenzene, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### TSCA inventory

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

#### TSCA list

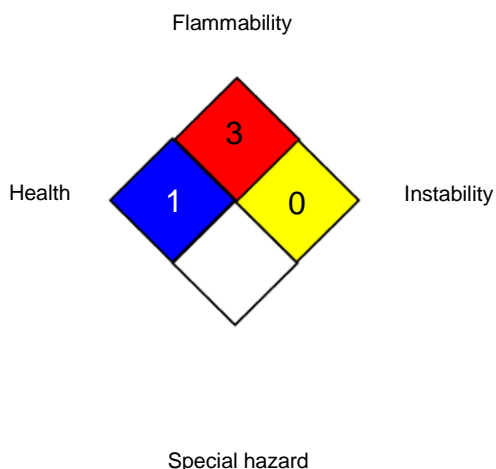
No substances are subject to a Significant New Use Rule.

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

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	*	3
FLAMMABILITY		3
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

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH / TWA : 8-hour, time-weighted average



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AIIIC - 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 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; 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 Bioaccumulative

Revision Date : 12/02/2021

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.