

# SAFETY DATA SHEET



## Tordon® RTU

Version 1.0      Revision Date: 09/15/2022      SDS Number: 800080003211      Date of last issue: -  
Date of first issue: 09/15/2022

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Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

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### SECTION 1. IDENTIFICATION

Product name : Tordon® RTU

#### Manufacturer or supplier's details

#### COMPANY IDENTIFICATION

Manufacturer/importer : CORTEVA AGRISCIENCE LLC  
9330 ZIONSVILLE RD  
INDIANAPOLIS, IN, 46268-1053  
UNITED STATES

Customer Information Number : 800-992-5994

E-mail address : customerinformation@corteva.com

Emergency telephone : INFOTRAC (CONTRACT 84224).  
800-992-5994 or 317-337-6009

#### Recommended use of the chemical and restrictions on use

Recommended use : End use herbicide product

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### SECTION 2. HAZARDS IDENTIFICATION

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

Flammable liquids : Category 3

Serious eye damage : Category 1

Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Kidney)

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

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Hazard Statements : H226 Flammable liquid and vapor.  
H318 Causes serious eye damage.  
H373 May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe mist or vapors.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P305 + P351 + P338 + P310 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.  
P314 Get medical advice/ attention if you feel unwell.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:**  
P501 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)
salts of 2,4-D	18584-79-7	20.9
Picloram triisopropanolamine salt	6753-47-5	5.4
ethanediol	107-21-1	>= 10 - < 20
propan-2-ol	67-63-0	>= 3 - < 10
Alkylphenol alkoxylate	69029-39-6	>= 1 - < 3
Balance	Not Assigned	> 40

Actual concentration is withheld as a trade secret

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**SECTION 4. FIRST AID MEASURES**

- If inhaled : Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.  
If breathing is difficult, oxygen should be administered by qualified personnel.
- In case of skin contact : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- In case of eye contact : Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
- If swallowed : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.  
Never give anything by mouth to an unconscious person.  
If person is fully conscious give 1 cup or 8 ounces (240 ml) of water. If medical advice is delayed and if an adult has swallowed several ounces of chemical, then give 3-4 ounces (1/3-1/2 Cup) (90-120 ml) of hard liquor such as 80 proof whiskey. For children, give proportionally less liquor at a dose of 0.3 ounces (1 1/2 tsp.) (8 ml) liquor for each 10 pounds of body weight, or 2 ml per kg body weight [e.g., 1.2 ounce (2 1/3 tbsp.) for a 40 pound child or 36 ml for an 18 kg child].
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : If several ounces (60 - 100 ml) of ethylene glycol have been ingested, early administration of ethanol may counter the toxic effects (metabolic acidosis, renal damage). Consider hemodialysis or peritoneal dialysis & thiamine 100 mg plus pyridoxine 50 mg intravenously every 6 hours.  
If ethanol is used, a therapeutically effective blood concentration in the range of 100 - 150 mg/dl may be achieved by a rapid loading dose followed by a continuous intravenous infusion. Consult standard literature for details of treatment.  
4-Methyl pyrazole (Antizol®) is an effective blocker of alcohol dehydrogenase and should be used in the treatment of ethylene glycol (EG), di- or triethylene glycol (DEG, TEG), ethylene glycol butyl ether (EGBE), or methanol intoxication if available.  
Fomepizole protocol (Brent, J. et al., New England Journal of Medicine, Feb. 8, 2001, 344:6, p. 424-9): loading dose 15 mg/kg intravenously, follow by bolus dose of 10 mg/kg every 12 hours; after 48 hours, increase bolus dose to 15 mg/kg every 12 hours.  
Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress.  
In severe poisoning, respiratory support with mechanical ven-

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tilation and positive end expiratory pressure may be required. Maintain adequate ventilation and oxygenation of the patient. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Continue fomepizole until serum methanol, EG, DEG, TEG or EGBE are undetectable. The signs and symptoms of poisoning include anion gap metabolic acidosis, CNS depression, renal tubular injury, and possible late stage cranial nerve involvement. Hemodialysis may be of benefit if substantial amounts have been ingested and the patient is showing signs of intoxication. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : Do not use direct water stream.  
High volume water jet
- Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health. Vapors may form explosive mixtures with air. Do not allow run-off from fire fighting to enter drains or water courses.  
Flash back possible over considerable distance.
- Hazardous combustion products : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.
- Combustion products may include and are not limited to:  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen chloride gas
- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.
- Further information : Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed.  
Do not use a solid water stream as it may scatter and spread fire.  
Use a water spray to cool fully closed containers.  
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.

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Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Remove all sources of ignition. Use personal protective equipment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities. Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Prevent from entering into soil, ditches, sewers, underwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up : Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-pressurization of the container. Wipe up with absorbent material (e.g. cloth, fleece). Non-sparking tools should be used. 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). Suppress (knock down) gases/vapors/mists with a water spray jet. See Section 13, Disposal Considerations, for additional information.

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**SECTION 7. HANDLING AND STORAGE**

Local/Total ventilation : Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling : To avoid spills during handling keep bottle on a metal tray.

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- Avoid formation of aerosol.  
Non-sparking tools should be used.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Do not breathe vapors/dust.  
Do not smoke.  
Handle in accordance with good industrial hygiene and safety practice.  
Smoking, eating and drinking should be prohibited in the application area.  
Avoid inhalation of vapor or mist.  
Do not swallow.  
Do not get in eyes.  
Avoid contact with skin and eyes.  
Avoid prolonged or repeated contact with skin.  
Keep container tightly closed.  
Keep away from heat and sources of ignition.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Conditions for safe storage : Store in a closed container.  
No smoking.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep in properly labeled containers.  
Keep tightly closed.  
Store in accordance with the particular national regulations.
- Materials to avoid : Strong oxidizing agents  
Organic peroxides  
Flammable solids  
Pyrophoric liquids  
Self-heating substances and mixtures  
Substances and mixtures which in contact with water emit flammable gases  
Explosives  
Gases
- Packaging material : Unsuitable material: None known.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
salts of 2,4-D	18584-79-7	TWA	10 mg/m <sup>3</sup>	Dow IHG
ethanediol	107-21-1	TWA	50 mg/m <sup>3</sup>	Dow IHG
		STEL	100 mg/m <sup>3</sup>	Dow IHG
		TWA (Vapor)	25 ppm	ACGIH
		STEL (Vapor)	50 ppm	ACGIH

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		STEL (Inhalable fraction, Aerosol only)	10 mg/m3	ACGIH
		C	50 ppm 125 mg/m3	OSHA P0
propan-2-ol	67-63-0	TWA	150 ppm	Dow IHG
		STEL	300 ppm	Dow IHG
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	OSHA Z-1
		STEL	500 ppm 1,225 mg/m3	OSHA P0
		TWA	400 ppm 980 mg/m3	OSHA P0
Alkylphenol alkoxyate	69029-39-6	TWA	2 mg/m3	Dow IHG

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work-week	40 mg/l	ACGIH BEI

**Engineering measures** : Use engineering controls to maintain airborne level below exposure limit requirements or guidelines.  
 If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation.  
 Local exhaust ventilation may be necessary for some operations.

### Personal protective equipment

**Respiratory protection** : Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, use an approved air-purifying or positive-pressure supplied-air respirator depending on the potential airborne concentration. For emergency and other conditions where the exposure guideline may be exceeded, use an approved positive-pressure self-contained breathing apparatus or positive-pressure air line with auxiliary self-contained air supply. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply.

**Hand protection**

**Remarks** : Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and

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duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Eye protection : Use chemical goggles.

Skin and body protection : When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as faceshield, boots, apron, or full-body suit will depend on the task. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Liquid.
Color	: Green to blue
Odor	: Alcohols
Odor Threshold	: No data available
pH	: 6.9 Method: pH Electrode GLP: yes
Melting point/range	: Not applicable
Freezing point	: No data available
Boiling point/boiling range	: $\geq 180$ °F / $\geq 82$ °C
Flash point	: 106 °F / 41 °C Method: closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: 42.656 hPa (68 °F / 20 °C) Approx.
Relative vapor density	: 2 (alcohol)



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Relative density : No data available

Density : 1.0902 g/cm<sup>3</sup> (68 °F / 20 °C)  
Method: Digital density meter

Solubility(ies)  
Water solubility : miscible

Autoignition temperature : No data available

Viscosity  
Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : No decomposition if stored and applied as directed.  
Stable under normal conditions.

Possibility of hazardous reactions : Stable under recommended storage conditions.  
No hazards to be specially mentioned.  
Vapors may form explosive mixture with air.  
May form explosive dust-air mixture.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : None.

Hazardous decomposition products : Decomposition products depend upon temperature, air supply and the presence of other materials.  
Decomposition products can include and are not limited to:  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen chloride gas

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.85 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Maximum attainable concentration.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3,980 mg/kg

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LD50 (Rabbit, male and female): > 2,000 mg/kg

**Components:****salts of 2,4-D:**

Acute oral toxicity : LD50 (Rat): 1,074 mg/kg

LD50 (Rat, male): 1,220 mg/kg

Acute inhalation toxicity : Remarks: No adverse effects are anticipated from single exposure to mist.  
Based on the available data, respiratory irritation was not observed.

LC50 (Rat, male): > 0.84 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: Maximum attainable concentration.  
No deaths occurred at this concentration.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute dermal toxicity

**Picloram triisopropanolamine salt:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : Remarks: Vapors are unlikely due to physical properties.  
No adverse effects are anticipated from single exposure to dust.  
Excessive exposure may cause irritation to upper respiratory tract (nose and throat).

LC50 (Rat): > 0.07 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Symptoms: The LC50 value is greater than the Maximum Attainable Concentration., No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute dermal toxicity

**ethanediol:**

Acute oral toxicity : LD50 (Rat, male and female): 7,712 mg/kg

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Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.5 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 10,600 mg/kg

LD50 (Mouse, male and female): > 3,500 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**propan-2-ol:**

Acute oral toxicity : LD50 (Rat): 5,840 mg/kg  
Method: OECD 401 or equivalent

Acute inhalation toxicity : LC50 (Rat, male and female): > 10000 ppm  
Exposure time: 6 h  
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): > 12,800 mg/kg

**Alkylphenol alkoxyate:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg

**Skin corrosion/irritation****Product:**

Species : Rabbit  
Result : No skin irritation

**Components:****ethanediol:**

Species : Rabbit  
Result : No skin irritation

**propan-2-ol:**

Species : Rabbit  
Result : No skin irritation

**Alkylphenol alkoxyate:**

Species : Rabbit  
Result : No skin irritation

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**Serious eye damage/eye irritation****Product:**

Species : Rabbit  
Result : Corrosive

**Components:****salts of 2,4-D:**

Result : Corrosive

**ethanediol:**

Species : Rabbit  
Result : No eye irritation

**propan-2-ol:**

Species : Rabbit  
Result : Eye irritation

**Alkylphenol alkoxyate:**

Species : Rabbit  
Result : No eye irritation

**Respiratory or skin sensitization****Product:**

Species : Guinea pig  
Result : Does not cause skin sensitization.

**Components:****salts of 2,4-D:**

Species : Guinea pig  
Result : May cause sensitization by skin contact.

**Picloram triisopropanolamine salt:**

Assessment : The product is a skin sensitizer, sub-category 1B.  
Remarks : Has caused allergic skin reactions when tested in guinea pigs.

Remarks : For respiratory sensitization:  
No relevant data found.

**ethanediol:**

Species : Guinea pig  
Assessment : Does not cause skin sensitization.

**propan-2-ol:**

Species : Guinea pig  
Assessment : Does not cause skin sensitization.

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**Alkylphenol alkoxyate:**

Species : Guinea pig  
 Assessment : Does not cause skin sensitization.

**Germ cell mutagenicity****Components:****salts of 2,4-D:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

**Picloram triisopropanolamine salt:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., The following information is based on limited data and/or screening studies., Animal genetic toxicity studies were negative.

**ethanediol:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

**propan-2-ol:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

**Alkylphenol alkoxyate:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative.

**Carcinogenicity****Components:****salts of 2,4-D:**

Carcinogenicity - Assessment : For similar active ingredient(s)., There is no evidence of carcinogenicity in laboratory animal toxicity studies. While some epidemiological studies report a positive association between 2,4-D exposure and cancer, a weight of evidence analysis of the epidemiology data across studies reveals no indication that 2,4-D causes cancer in humans.

**Picloram triisopropanolamine salt:**

Carcinogenicity - Assessment : For similar active ingredient(s)., Picloram acid., Did not cause cancer in laboratory animals.

**ethanediol:**

Carcinogenicity - Assessment : Ethylene glycol did not cause cancer in long-term animal studies.

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**propan-2-ol:**

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

**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****Components:****salts of 2,4-D:**

Reproductive toxicity - Assessment : For similar active ingredient(s), 2,4-Dichlorophenoxyacetic acid., In laboratory animals, excessive doses toxic to the parent animals caused decreased weight and survival of offspring.  
Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Has caused birth defects in laboratory animals only at doses producing severe toxicity in the mother.

**Picloram triisopropanolamine salt:**

Reproductive toxicity - Assessment : For similar active ingredient(s), Picloram acid., In animal studies, did not interfere with reproduction.  
Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

**ethanediol:**

Reproductive toxicity - Assessment : Ingestion of large amounts of ethylene glycol has been shown to interfere with reproduction in animals.  
Based on animal studies, ingestion of very large amounts of ethylene glycol appears to be the major and possibly only route of exposure to produce birth defects. Exposures by inhalation or skin contact, the primary routes of occupational exposure, had minimal effect on the fetus, in animal studies.

**propan-2-ol:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction., In animal studies, did not interfere with fertility.  
Isopropanol has been toxic to the fetus in laboratory animals at doses toxic to the mother.

**Alkylphenol alkoxyate:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction., In animal studies, did not interfere with fertility.  
Did not cause birth defects or any other fetal effects in labora-

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tory animals.

**STOT-single exposure****Components:****ethanediol:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**propan-2-ol:**

Routes of exposure : Ingestion  
 Target Organs : Central nervous system  
 Assessment : May cause drowsiness or dizziness.

**Alkylphenol alkoxyate:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**STOT-repeated exposure****Components:****ethanediol:**

Routes of exposure : Ingestion  
 Target Organs : Kidney  
 Assessment : May cause damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity****Components:****salts of 2,4-D:**

Remarks : In animals, effects have been reported on the following organs:  
 Kidney.  
 Liver.  
 Eye.  
 Thyroid.

**Picloram triisopropanolamine salt:**

Remarks : In animals, effects have been reported on the following organs:  
 Liver.

**ethanediol:**

Remarks : Observations in humans include:  
 Nystagmus (involuntary eye movement).  
 In animals, effects have been reported on the following organs:

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Kidney.  
Liver.

**propan-2-ol:**

Remarks : In animals, effects have been reported on the following organs:  
Kidney.  
Liver.  
Kidney effects have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans.  
Observations in animals include:  
Lethargy.

**Alkylphenol alkoxyate:**

Remarks : In animals, effects have been reported on the following organs:  
Kidney.  
Liver.

**Aspiration toxicity****Components:****salts of 2,4-D:**

Based on available information, aspiration hazard could not be determined.

**Picloram triisopropanolamine salt:**

Based on physical properties, not likely to be an aspiration hazard.

**ethanediol:**

Based on physical properties, not likely to be an aspiration hazard.

**propan-2-ol:**

Aspiration into the lungs may occur during ingestion or vomiting, resulting in rapid absorption and injury to other body systems.

**Alkylphenol alkoxyate:**

Based on physical properties, not likely to be an aspiration hazard.

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****salts of 2,4-D:**

Toxicity to fish : Remarks: Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the



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most sensitive species tested).

LC50 (Oncorhynchus mykiss (rainbow trout)): 317 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 748 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 103 mg/l  
 Exposure time: 5 d

EC50 (Lemna minor (duckweed)): 2.37 mg/l  
 Exposure time: 14 d

Toxicity to terrestrial organisms : Remarks: Material is moderately toxic to birds on an acute basis (LD50 between 51 and 500 mg/kg)., Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).

oral LD50 (Colinus virginianus (Bobwhite quail)): 405 mg/kg

dietary LC50 (Colinus virginianus (Bobwhite quail)): > 5,620 ppm

**Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Picloram triisopropanolamine salt:**

Toxicity to fish : Remarks: Based on information for a similar material: Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50 (Oncorhynchus mykiss (rainbow trout)): 51 mg/l  
 Exposure time: 96 h  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 125 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Toxicity to algae/aquatic plants : ErC50 (Myriophyllum spicatum): 0.558 mg/l  
 Exposure time: 14 d  
 Remarks: For similar material(s):

NOEC (Myriophyllum spicatum): 0.0095 mg/l  
 Exposure time: 14 d  
 Remarks: For similar material(s):

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M-Factor (Acute aquatic toxicity) : 1  
 Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 7.19 mg/l  
 Exposure time: 28 d

M-Factor (Chronic aquatic toxicity) : 10

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.  
 Very toxic to aquatic life with long lasting effects.

**ethanediol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 72,860 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: Other guidelines

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapita): 6,500 - 13,000 mg/l  
 End point: Growth rate inhibition  
 Exposure time: 96 h  
 Method: Other guidelines

Toxicity to microorganisms : EC50 (activated sludge): 225 mg/l  
 Exposure time: 30 min  
 Method: OECD 209 Test

**propan-2-ol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test  
 Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
 Exposure time: 24 h  
 Test Type: static test  
 Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic plants : NOEC (alga Scenedesmus sp.): 1,800 mg/l  
 End point: Growth inhibition (cell density reduction)  
 Exposure time: 7 d  
 Test Type: static test

ErC50 (alga Scenedesmus sp.): > 1,000 mg/l  
 End point: Growth rate inhibition  
 Exposure time: 72 h

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Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 30 mg/l  
Exposure time: 21 d  
Test Type: semi-static test

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

**Alkylphenol alkoxyate:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 4.8 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203 or Equivalent

LC50 (Oncorhynchus mykiss (rainbow trout)): 3.7 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 10.5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202 or Equivalent

Toxicity to terrestrial organisms : dietary LC50 (Apis mellifera (bees)): > 105 micrograms/bee  
Exposure time: 2 d

contact LD50 (Apis mellifera (bees)): > 100 micrograms/bee  
Exposure time: 2 d

No Observed Effects Level (NOEL) (Colinus virginianus (Bobwhite quail)): 2,250 mg/kg

oral LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Persistence and degradability****Components:****salts of 2,4-D:**

Biodegradability : Result: Readily biodegradable.  
Remarks: For similar active ingredient(s).  
2,4-Dichlorophenoxyacetic acid.  
Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

**Picloram triisopropanolamine salt:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: For similar active ingredient(s).

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## Picloram.

Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Biodegradation may occur under aerobic conditions (in the presence of oxygen).

Surface photodegradation is expected with exposure to sunlight.

**ethanediol:**

## Biodegradability

: aerobic  
 Result: Readily biodegradable.  
 Biodegradation: 90 - 100 %  
 Exposure time: 10 d  
 Method: OECD Test Guideline 301A or Equivalent  
 Remarks: 10-day Window: Pass

## aerobic

Inoculum: Activated sludge, non-adapted

Concentration: 1,300 mg/l

Biodegradation: 90 %

Exposure time: 1 d

Method: OECD Test Guideline 302B or Equivalent

Remarks: 10-day Window: Not applicable

## ThOD

: 1.29 kg/kg

**propan-2-ol:**

## Biodegradability

: Result: Readily biodegradable.  
 Biodegradation: 95 %  
 Exposure time: 21 d  
 Method: OECD Test Guideline 301E or Equivalent  
 Remarks: 10-day Window: Pass

Biodegradation: 53 %

Exposure time: 5 d

Method: Other guidelines

Remarks: 10-day Window: Pass

## Biochemical Oxygen Demand (BOD)

: 20 - 72 %  
 Incubation time: 5 d

78 - 86 %

Incubation time: 20 d

## Chemical Oxygen Demand (COD)

: 2.09 kg/kg  
 Method: Estimated.

## ThOD

: 2.40 kg/kg  
 Method: Estimated.

## Photodegradation

: Test Type: Half-life (indirect photolysis)  
 Sensitizer: OH radicals

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Rate constant: 7.26E-12 cm<sup>3</sup>/s  
Method: Estimated.

**Alkylphenol alkoxyate:**

Biodegradability : Result: Not biodegradable  
Remarks: Biodegradation under aerobic laboratory conditions is below detectable limits (BOD<sub>20</sub> or BOD<sub>28</sub>/ThOD < 2.5%). Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Chemical Oxygen Demand (COD) : 1.78 kg/kg  
ThOD : 2.35 kg/kg

**Bioaccumulative potential****Components:****salts of 2,4-D:**

Partition coefficient: n-octanol/water : Remarks: No bioconcentration is expected because of the relatively high water solubility.  
  
Remarks: For similar active ingredient(s).  
2,4-Dichlorophenoxyacetic acid.  
Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Picloram triisopropanolamine salt:**

Partition coefficient: n-octanol/water : Remarks: No data available for this product.  
For similar active ingredient(s).  
Picloram.  
Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**ethanediol:**

Partition coefficient: n-octanol/water : log Pow: -1.36  
Method: Measured  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**propan-2-ol:**

Partition coefficient: n-octanol/water : Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).  
  
log Pow: 0.05  
Method: Measured

**Alkylphenol alkoxyate:**

Partition coefficient: n-octanol/water : Remarks: No bioconcentration is expected because of the relatively high water solubility.

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May foam in water.

**Balance:**

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

**Mobility in soil****Components:****salts of 2,4-D:**

Distribution among environmental compartments : Remarks: For similar active ingredient(s).  
2,4-Dichlorophenoxyacetic acid.  
Potential for mobility in soil is very high (Koc between 0 and 50).

**Picloram triisopropanolamine salt:**

Distribution among environmental compartments : Remarks: For similar active ingredient(s).  
Picloram.  
Potential for mobility in soil is very high (Koc between 0 and 50).

**ethanediol:**

Distribution among environmental compartments : Koc: 1  
Method: Estimated.  
Remarks: Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.  
Potential for mobility in soil is very high (Koc between 0 and 50).

**propan-2-ol:**

Distribution among environmental compartments : Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

Koc: 1.1  
Method: Estimated.

**Balance:**

Distribution among environmental compartments : Remarks: No relevant data found.

**Other adverse effects****Components:****salts of 2,4-D:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

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**Picloram triisopropanolamine salt:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**ethanediol:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**propan-2-ol:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Alkylphenol alkoxyate:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Balance:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

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**SECTION 13. DISPOSAL CONSIDERATIONS**
**Disposal methods**

Waste from residues : If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identifica-

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tion and disposal methods in compliance with applicable regulations.

If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

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**SECTION 14. TRANSPORT INFORMATION**
**International Regulations****UNRTDG**

UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (Isopropanol)
Class	:	3
Packing group	:	III
Labels	:	3

**IATA-DGR**

UN/ID No.	:	UN 1993
Proper shipping name	:	Flammable liquid, n.o.s. (Isopropanol)
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

**IMDG-Code**

UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (Isopropanol)
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, <u>S-E</u>
Marine pollutant	:	no
Remarks	:	Stowage category A

**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 1993
Proper shipping name	:	Flammable liquids, n.o.s. (Isopropanol)
Class	:	3
Packing group	:	III
Labels	:	FLAMMABLE LIQUID
ERG Code	:	128
Marine pollutant	:	no



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**Further information**

For US Domestic transport, according to 49 CFR 173.150 f (1), A flammable liquid with a flash point at or above 38 °C (100 °F) that does not meet the definition of any other hazard class may be reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable., This product is only classified in containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters). If transporting by vessel or aircraft, unless other means of transportation is impracticable, the product must be shipped as a flammable liquid.

**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**

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Specific target organ toxicity (single or repeated exposure)  
Serious eye damage or eye irritation

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

ethanediol	107-21-1	>= 10 - < 20 %
propan-2-ol	67-63-0	>= 5 - < 10 %

**US State Regulations****Pennsylvania Right To Know**

ethanediol	107-21-1
propan-2-ol	67-63-0

**California Prop. 65**

WARNING: This product can expose you to chemicals including sulphuric acid, hexachlorobenzene, which is/are known to the State of California to cause cancer, and ethanediol, hexachlorobenzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**The ingredients of this product are reported in the following inventories:**

TSCA : Product contains substance(s) not listed on TSCA inventory.

**TSCA list**

No substances are subject to a Significant New Use Rule.

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

**Federal Insecticide, Fungicide and Rodenticide Act**

EPA Registration Number : 62719-031

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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:

## CAUTION

Causes moderate eye irritation  
Harmful if swallowed or absorbed through skin

## SECTION 16. OTHER INFORMATION

## Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

## Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
Dow IHG	:	Dow Industrial Hygiene Guideline
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
Dow IHG / TWA	:	Time Weighted Average (TWA):
Dow IHG / STEL	:	Short term exposure limit
Dow IHG / TWA	:	Time weighted average
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA P0 / C	:	Ceiling limit
OSHA Z-1 / TWA	:	8-hour time weighted average

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 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 Admin-

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istration; 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 : 09/15/2022

Product code: XRM-4086

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 a 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.

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