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In Case of Emergency, call CANUTEC, 1(613) 996-6666, Open 24 hrs

**SECTION – 1: PRODUCT IDENTIFICATION** 

Product Identifier: Pyralid Herbicide

Registration Number: 32265 (Pest Control Products Act)

Active Ingredient(%):clopyralid (present as triisopropanolamine salt) at 300 g/LCAS No.: 1702-17-6

Chemical Name: 3,6-dichloro-2-carboxylic acid IUPAC 3,6-dichloro-2-carboxylic acid or 3,6-dichloropicolinic

acid

**Product Use:** For control of perennial and annual broadleaved weeds in field crops, Christmas tree plantations, pasture, rangeland, vegetable and fruit crops, and non-cropland. For further details please refer

to product label.

## SECTION – 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Average % by weight
Clopyralid monoethanolamine salt	57754-85-5	40.9
Isopropanol	67-63-0	5.0
Ethylene oxide, propylene oxide and di-sec-butylphenol polymer	69029-39-6	1.0

Amounts are presented as percentages by weight.

## **SECTION – 3: HAZARDS IDENTIFICATION**

Emergency Overview Color: Red to brown Physical State: Liquid

Odor: Sweet

**Hazards of product:** 

CAUTION! Combustible liquid and vapor. May cause eye irritation. May cause skin irritation. May cause respiratory tract irritation. Vapor explosion hazard. Vapors may travel a long distance; ignition and/or flash back may occur. Isolate area. Keep upwind of spill. Stay out of low areas. Eliminate ignition sources. Toxic fumes may be released in fire situations.

#### **Potential Health Effects**

**Eye Contact:** May cause mild eye discomfort. May cause eye irritation. May cause slight temporary corneal injury. Mist may cause eye irritation. Vapor may cause eye irritation experienced as mild discomfort and redness.

Skin Contact: Prolonged contact may cause slight skin irritation with local redness.



**Skin Absorption:** Prolonged skin contact is unlikely to result in absorption of harmful amounts. **Inhalation:** Mist may cause irritation of upper respiratory tract (nose and throat) and lungs. Excessive exposure (400 ppm) to isopropanol may cause eye, nose and throat irritation. Incoordination, confusion,

hypotension, hypothermia, circulatory collapse, respiratory arrest and death may follow a longer duration or higher levels. Observations in animals include middle ear lining damage upon exposure to vapors of isopropanol. However, the relevance of this to humans is unknown

**Ingestion:** Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. Observations in animals include: Lethargy.

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

**Effects of Repeated Exposure:** For the active ingredient(s): Based on available data, repeated exposures are not expected to cause significant adverse effects except at very high aerosol concentrations. Repeated excessive aerosol exposures may cause respiratory tract irritation and even death. Based on information for component(s): In animals, effects have been reported on the following organs: Liver. Kidney.

**Birth Defects/Developmental Effects:** For similar active ingredient(s). Clopyralid caused birth defects in test animals, but only at greatly exaggerated doses that were severely toxic to the mothers. No birth defects were observed in animals given clopyralid at doses several times greater than those expected during normal exposure. Based on information for component(s): Isopropanol has been toxic to the fetus in laboratory animals at doses toxic to the mother.

#### **SECTION – 4: FIRST AID MEASURES**

#### Description of first aid measures

**General advice:** First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** 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.

**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. Suitable emergency safety shower facility should be available in work area.

**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. Suitable emergency eye wash facility should be available in work area.

**Ingestion:** No emergency medical treatment necessary.

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

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

## Indication of immediate medical attention and special treatment needed

Maintain adequate ventilation and oxygenation of the patient. May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. Hemodialysis may be of benefit if substantial amounts have been ingested and the patient is showing signs of intoxication. Consider hemodialysis for patients with persistent hypotension or coma unresponsive to standard therapy



(isopropanol levels >400 - 500 mg/dl). (Goldfrank 1998, King et al, 1970). No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

Repeated excessive exposure may aggravate preexisting lung disease.

#### **SECTION – 5: FIRE FIGHTING MEASURES**

#### Suitable extinguishing media

To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

## Special hazards arising from the substance or mixture

Hazardous Combustion Products: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

**Unusual Fire and Explosion Hazards:** This material will not burn until the water has evaporated. Residue can burn. Container may rupture from gas generation in a fire situation.

## **Advice for firefighters**

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Move container from fire area if this is possible without hazard. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections. See Section 9 for related Physical Properties

#### **SECTION – 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Keep personnel out of low areas. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Ground and bond all containers and handling equipment. Vapor explosion hazard. Keep out of sewers. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.



**Methods and materials for containment and cleaning up:** Contain spilled material if possible. Pump with explosion-proof equipment. If available, use foam to smother or suppress. Small spills: Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Sharda Cropchem Limited for clean-up assistance. See Section 13, Disposal Considerations, for additional information.

#### **SECTION - 7: HANDLING AND STORAGE**

## Handling

**General Handling:** Keep out of reach of children. Do not swallow. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling. Keep container closed. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. Keep away from heat, sparks and flame. No smoking, open flames or sources of ignition in handling and storage area. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Electrically ground and bond all equipment.

## **Storage**

Minimize sources of ignition, such as static build-up, heat, spark or flame. Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies.

SECTION - 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits			
Component	List	Туре	Value
Isopropanol	CAD BC OEL	TWA	200 ppm
	CAD BC OEL	STEL	400 ppm
	CAD ON OEL	TWAEV	200 ppm
	CAD ON OEL	STEV	400 ppm
	ACGIH	TWA	200 ppm
	ACGIH	STEL	400 ppm
	OEL (QUE)	TWA	983 mg/m <sup>3</sup> 400 ppm
	OEL (QUE)	STEL	1,230 mg/m <sup>3</sup> 500 ppm
	OEL (QUE)	TWA	983 mg/m <sup>3</sup> 400 ppm
	OEL (QUE)	STEL	1,230 mg/m <sup>3</sup> 500 ppm
	CAD AB OEL	TWA	492 mg/m <sup>3</sup> 200 ppm
	CAD AB OEL	STEL	984 mg/m <sup>3</sup> 400 ppm
Ethylene oxide, propylene oxide and di-sec-butylphenol polymer	Dow IHG	TWA	2 mg/m <sup>3</sup>

Consult local authorities for recommended exposure limits.

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.



#### **Personal Protection**

**Eye/Face Protection:** Use safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

**Skin Protection:** Wear clean, body-covering clothing.

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

**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. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

**Ingestion:** Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

#### **Engineering Controls**

**Ventilation:** 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.

### **SECTION - 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### Appearance

Physical State Liquid

Color Red to brown Odor Sweet 7.5 - 8.0

pH7.5 - 8.0Melting PointNot applicable

Freezing Point No test data available

Boiling Point (760 mmHg) 100 °C.

Flash Point - Closed Cup 47.2 °C Closed Cup Evaporation Rate (Butyl Acetate = 1) No test data available

Flammable Limits In Air

Lower: No test data available

Upper: No test data available

 Vapor Pressure
 23.5 mmHg @ 20 °C

 Vapor Density (air = 1)
 1.06 @ 20 °C

Specific Gravity ( $H_2O = 1$ ) 1.161



Solubility in water (by weight)

Partition coefficient, n-octanol/water (log Pow)

Autoignition Temperature Decomposition Temperature

Dynamic Viscosity Kinematic Viscosity Liquid Density Miscible with water

No data available for this product. See Section 12

forindividual component data.

No test data available No test data available

7 cPs

No test data available

1.161 g/cm<sup>3</sup> @ 20 °C Calculated

#### SECTION - 10: STABILITY AND REACTIVITY

### Reactivity

No dangerous reaction known under conditions of normal use.

## **Chemical stability**

Unstable at elevated temperatures.

## Possibility of hazardous reactions

Polymerization will not occur.

**Conditions to Avoid:** Active ingredient decomposes at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid. Avoid direct sunlight. **Incompatible Materials:** Avoid contact with: Acids. Halogenated organics. Oxidizers. Avoid contact with metals such as: Aluminum. Zinc. Brass. Copper.

#### **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: Chlorinated pyridine. Hydrogen chloride. Nitrogen oxides.

## **SECTION – 11: TOXICOLOGICAL INFORMATION**

#### **Acute Toxicity**

## Ingestion

As product: LD50, Rat, male and female > 5,000 mg/kg

Dermal

As product: LD50, Rabbit > 5,000 mg/kg

Inhalation

As product: LC50, 4 h, Aerosol, Rat, male and female > 3.0 mg/l

Maximum attainable concentration. No deaths occurred at this concentration.

#### Eye damage/eye irritation

May cause mild eye discomfort. May cause eye irritation. May cause slight temporary corneal injury. Mist may cause eye irritation. Vapor may cause eye irritation experienced as mild discomfort and redness.

## Skin corrosion/irritation

Prolonged contact may cause slight skin irritation with local redness.

## Sensitization

#### Skin

Did not cause allergic skin reactions when tested in guinea pigs.

## Respiratory



No relevant information found.

## **Repeated Dose Toxicity**

For the active ingredient(s): Based on available data, repeated exposures are not expected to cause significant adverse effects except at very high aerosol concentrations. Repeated excessive aerosol exposures may cause respiratory tract irritation and even death. Based on information for component(s): In animals, effects have been reported on the following organs: Liver. Kidney.

## **Chronic Toxicity and Carcinogenicity**

Similar formulations did not cause cancer in laboratory animals.

## **Developmental Toxicity**

For similar active ingredient(s). Clopyralid caused birth defects in test animals, but only at greatly exaggerated doses that were severely toxic to the mothers. No birth defects were observed in animals given clopyralid at doses several times greater than those expected during normal exposure. Based on information for component(s): Isopropanol has been toxic to the fetus in laboratory animals at doses toxic to the mother.

## **Reproductive Toxicity**

In animal studies, active ingredient did not interfere with reproduction.

### **Genetic Toxicology**

For the active ingredient(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

#### **SECTION – 12: ECOLOGICAL INFORMATION**

#### **Toxicity**

# <u>Data for Component: Clopyralid monoethanolami</u>ne salt

Material is practically non-toxic to fish on an acute basis (LC50 > 100 mg/L). Material is practically non-toxic to aquatic invertebrates on an acute basis (LC50/EC50 > 100 mg/L). Material is slightly toxic to birds on an acute basis (LD50 between 501 and 2000 mg/kg). Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).

#### Fish Acute & Prolonged Toxicity

LC50, bluegill (Lepomismacrochirus), static, 96 h: 125 - 4,686 mg/l

### **Aquatic Invertebrate Acute Toxicity**

EC50, water flea Daphnia magna, static, 48 h, immobilization: 225 - 1,133 mg/l

## **Toxicity to Above Ground Organisms**

oral LD50, mallard (Anasplatyrhynchos): 1465 - 2000 mg/kg bodyweight.

dietary LC50, bobwhite (Colinusvirginianus): > 5620 mg/kg diet.

contact LD50, Honey bee (Apismellifera): > 100 micrograms/bee

oral LD50, Honey bee (Apismellifera): > 100 micrograms/bee

#### Data for Component: Isopropanol

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 > 100 mg/L in the most sensitive species tested).

## Fish Acute & Prolonged Toxicity

LC50, fathead minnow (Pimephalespromelas), flow-through test, 96 h: 9,640 mg/l

## **Aquatic Invertebrate Acute Toxicity**

LC50, water flea Daphnia magna, static, 24 h, immobilization: > 1,000 mg/l

## **Aquatic Plant Toxicity**

NOEC, alga Scenedesmus sp., static, Growth inhibition (cell density reduction), 7 d: 1,800 mg/l



ErC50, alga Scenedesmus sp., static, Growth rate inhibition, 72 h: > 1,000 mg/l

**Toxicity to Micro-organisms** 

EC50; activated sludge: > 1,000 mg/l

**Aquatic Invertebrates Chronic Toxicity Value** 

water flea Daphnia magna, static renewal, 21 d, NOEC: 30 mg/l

### Data for Component: Ethylene oxide, propylene oxide and di-sec-butylphenol polymer

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

## Fish Acute & Prolonged Toxicity

LC50, bluegill (*Lepomismacrochirus*), static, 96 h: 4.8 mg/l LC50, rainbow trout (*Oncorhynchus mykiss*), static, 96 h: 3.7 mg/l

## **Aquatic Invertebrate Acute Toxicity**

LC50, water flea Daphnia magna, 48 h: 10.5 mg/l

## **Toxicity to Above Ground Organisms**

dietary LC50, Honey bee (*Apismellifera*): > 105 micrograms/bee contact LD50, Honey bee (*Apismellifera*): > 100 micrograms/bee No Observed Effects Level (NOEL), bobwhite (*Colinusvirginianus*): 2,250 mg/kg

oral LD50, bobwhite (Colinusvirginianus): > 2,250 mg/kg

## **Persistence and Degradability**

## Data for Component: Clopyralid monoethanolamine salt

For similar active ingredient(s). Clopyralid. Biodegradation under aerobic laboratory conditions is below detectable limits (BOD20 or BOD28/ThOD< 2.5%).

## **Data for Component: Isopropanol**

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

## **OECD Biodegradation Tests:**

Biodegradation	<b>Exposure Time</b>	Method	10 Day Window	
95%	21 d	OECD 301E Test	pass	
53%	5 d	EU Method C.6 (Degradation:	pass	
		Chemical Oxygen Demand)		

#### **Indirect Photodegradation with OH Radicals**

Rate Constant	Atmospheric Half-life	Method
7.26E-12 cm <sup>3</sup> /s	1.472 d	Estimated

## Biological oxygen demand (BOD):

BOD 5	BOD 10	BOD 20	BOD 28
20 - 72 %		78 - 86 %	

**Chemical Oxygen Demand:** 2.09 mg/mg **Theoretical Oxygen Demand:** 2.40 mg/mg

## Data for Component: Ethylene oxide, propylene oxide and di-sec-butylphenol polymer

Biodegradation under aerobic laboratory conditions is below detectable limits (BOD20 or BOD28/ThOD< 2.5%).



**Chemical Oxygen Demand:** 1.78 mg/mg **Theoretical Oxygen Demand:** 2.35 mg/mg

## **Bioaccumulative potential**

### Data for Component: Clopyralid monoethanolamine salt

Bioaccumulation: For similar active ingredient(s). Clopyralid. Bioconcentration potential is low (BCF <

100 or Log Pow < 3).

## Data for Component: Isopropanol

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient, n-octanol/water (log Pow): 0.05 Measured

## <u>Data for Component: Ethylene oxide, propylene oxide and di-sec-butylphenol polymer</u>

Bioaccumulation: No bioconcentration is expected because of the relatively high water solubility.

May foam in water. **Mobility in soil** 

### Data for Component: Clopyralid monoethanolamine salt

Mobility in soil: For similar active ingredient(s)., Clopyralid., Potential for mobility in soil is very high

(Koc between 0 and 50).

## Data for Component: Isopropanol

Mobility in soil: Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient, soil organic carbon/water (Koc): 1.1 Estimated.

Henry's Law Constant (H): 3.38E-06 - 8.07E-06 atm\*m<sup>3</sup>/mole; 25 °C Estimated.

## <u>Data for Component: Ethylene oxide, propylene oxide and di-sec-butylphenol polymer</u>

**Mobility in soil:** No data available.

#### **SECTION – 13: DISPOSAL CONSIDERATIONS**

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 theresponsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

## **SECTION – 14: TRANSPORT INFORMATION**

**TDG Small container** 

**NOT REGULATED** 

**TDG Large container** 

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

Technical Name: CONTAINS ISOPROPANOL

Hazard Class: 3 ID Number: UN1993 Packing Group: PG III



**IMDG** 

**Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S.

**Technical Name: CONTAINS ISOPROPANOL** 

Hazard Class: 3 ID Number: UN1993 Packing Group: PG III

EMS Number: F-E,S-E

ICAO/IATA

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

**Technical Name: CONTAINS ISOPROPANOL** 

Hazard Class: 3 ID Number: UN1993 Packing Group: PG III

Cargo Packing Instruction: 366
Passenger Packing Instruction: 355

#### **SECTION – 15: REGULATORY INFORMATION**

## **CEPA - Domestic Substances List (DSL)**

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

## **Hazardous Products Act Information: CPR Compliance**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## **Hazardous Products Act Information: WHMIS Classification**

This product is exempt under WHMIS.

**Pest Control Products Act Registration number: 32265** 

#### **National Fire Code of Canada**

Class II

#### **SECTION – 16: OTHER INFORMATION**

**Hazard Rating System** 

NFPA Health Fire Reactivity

2 2 1

#### **Recommended Uses and Restrictions**

Product use: End use herbicide product

#### Legend

N/A Not available W/W Weight/Weight

OEL Occupational Exposure Limit
STEL Short Term Exposure Limit
TWA Time Weighted Average



American Conference of Governmental Industrial Hygienists,

ACGIH Inc.

DOW IHG Dow Industrial Hygiene Guideline

WEEL Workplace Environmental Exposure Level

HAZ\_DES Hazard Designation VOL/VOL Volume/Volume

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Sharda Cropchem Limited will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This Material Safety Data Sheet is valid for three years. This product is under the jurisdiction of the Pest Control Products Act and is exempt from the requirements for a WHMIS compliant MSDS. Hazardous properties of all ingredients have been considered in the preparation of this MSDS. Read the entire MSDS for the complete hazard evaluation of this product.