

Trade Name: Discharge Agent

Revision Date: July 22,2014

### SECTION 1

#### **Product Name and Company Identification**

1.1 Product Names: Discharge Agent

Product Code: DC 294

1.2 Uses/Application: Discharge Agent

1.3 Company (Name, address and phone numbers

Lancer Group International 311 Saulteaux Crescent Winnipeg, Manitoba, Canada R3J 3C7 +1 (204) 889-7422

1.4 24 Hour Emergency Number: +1(613) 996-6666 CANUTEC

### SECTION 2

#### Hazards Identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Self-heating substances (Category 1)
Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

2.1.2 Classification according to EU Directives 67/548/EEC or 1999/45/EC

Heating may cause an explosion. Harmful if swallowed. Irritating to eyes, respiratory system and skin

2.1.3 WHMIS Classification: Class D2B

2.2 Label Elements

Pictogram Signal word None Danger

Hazard statement(s)

H251 Self-heating; may catch fire.

H302 Harmful if swallowed H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statement(s)

P235 + P410 Keep cool. Protect from sunlight

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P305 + P351 + P338 IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

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# SECTION 3 Composition/Information on Ingredients

Hazardous ingredients

Ingredients	Percentage	TLV (ppm)	CASNo	EC No
Thiourea Dioxide	>99		1758-73-2	217-157-8

### SECTION 4 First Aid Measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person

- 4.1 Description of First Aid Measures
  - 4.1.1 Treatment for Eye Contact: Immediately flush eyes with water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment consult an ophthalmologist.
  - 4.1.2 Treatment for Skin Contact: Remove contaminated clothing and wash the skin thoroughly with soap and water. In the event of allergic reaction, seek medical attention
  - 4.1.3 Treatment for Inhalation: In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest. If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.
  - 4.1.4 Treatment for Ingestion: Do not give the patient anything orally. In the event of swallowing, if quantity is small rinse the mouth with water and consult a doctor. Do not induce vomiting.
- 4.2 Most important symptoms and effects, both acute and delayed No data available
- 4.3 Indication of any immediate medical attention and special treatment needed No data available

# SECTION 5 Fire-fighting Measures

- 5.1 Extinguishing Media
  - Suitable extinguishing media: In the event of fire use carbon dioxide, dry chemical agents, foam. Unsuitable extinguishing media: In the event of fire do not use water jet.
- 5.2 Special hazards arising from the substance or mixture: A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe smoke. In the event of fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) may be formed.
- 5.3 Advice for firefighters: Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with self-contained breathing apparatus(SCBA).

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### SECTION 6 Accidental Release Measures

- 6.1 Personal Precautions, protective equipment and emergency procedures
  - 6.1.1 For non-emergency personnel: Avoid inhaling vapors. Avoid any contact with skin and eyes. If large quantity has been spilled, evacuate all personnel and allow intervention by trained operators with safety apparatus
  - 6.1.2 For emergency responders: Only qualified personnel equipped with suitable protective equipment may intervene.
- 6.2 Environmental Precautions: Contain and control the leaks or spills with non-combustible absorbent material such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Material should not be drained into the sewers.
- 6.3 Methods and material for containment and cleaning-up: Scoop material into a clean, properly labeled container for disposal and absorb remainder with inert material.
- 6.4 Reference to other sections: refer to section 8 section 13

# SECTION 7 Handling and Storage

- 7.1 Precautions for safe handling:
  - 7.1.1 Handling:

Handle and open containers with care. Avoid eye contact. Avoid excessive or repeated skin contact. Keep the containers closed when not in use.

7.1.2 Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before taking meal brakes and immediately after handling the product.

Do not eat, drink or smoke when using the product.

Remove and wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities:

Storage Condition: Keep the container tightly closed in a cool, dry, well-ventilated area, away from oxidizing and combustible materials.

Packaging material: store in original container

7.3 Specific end use(s): refer to section 1.2

# SECTION 8 Exposure Controls/Personal Protection

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8.1 Control parameters:

Exposure limits: No information available

8.2 Exposure controls:

8.2.1 Engineering Controls: Local exhaust ventilation may be needed to control air contaminants to their exposure limit. Provide mechanical ventilation for confined spaces.

8.2.2 Personal protective equipment:

Skin Protection: Nitrile gloves if continual contact is likely

Footwear: Sneakers

Clothing: Nitrile smock if available

Personal Hygiene: Avoid breathing fumes during fusion process. Wash hands before eating.

Wash contaminated clothing before reuse. Normal washing will be sufficient.

Respiratory Protection: Not required with normal adequate ventilation

Ventilation: Exhaust system sufficient to remove vapours released during fusion process.

8.2.3 Environmental Exposure Controls: Do not drain into sanitary sewer system. Comply with applicable community Environmental protection laws.

# SECTION 9 Physical and Chemical Properties

9.1 General information on basic physical and chemical properties:

**Appearance** 

Form crystalline Colour light yellow

Safety data

pH 4 at 10 g/l at 20 °C (68 °F) Melting point 124 - 127 °C (255 - 261 °F)

Boiling point no data available Flash point no data available Ignition temperature Lower explosion limit Upper explosion limit upper explosion limit no data available

Vapour pressure < 0.36 hPa (< 0.27 mmHg) at 30 °C (86 °F)

Density 1.680 g/cm3 at 20 °C (68 °F)

Water solubility soluble

Partition coefficient:

n-octanol/water log Pow: -3.23

9.2 Other information:

Percent Volatile by volume: Not applicable; Does not contain any volatile organic compounds

Hazardous Air pollutant: Does not contain any HAP's in accordance with US Environmental requirement list

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### SECTION 10 Stability and Reactivity

10.1 Reactivity: Product stable at ambient temperature

Conditions of Reactivity: Prolonged exposure to temperatures above 123°C

10.2 Chemical Stability: Under storage at normal ambient temperatures, the product is stable.

10.3 Possibility of hazardous reactions: Dust explosion

10.4 Conditions to avoid: Heat, humidity

10.5 Incompatible material: Oxidizing agents

10.6 Hazardous Decomposition Products: Carbon monoxide(CO), carbon dioxide (CO<sub>2</sub>), hydrogen cyanide (HCN), nitrogen oxide and sulfur oxide

# SECTION 11 Toxicological Information

11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - rat - 1,120 mg/kg LD50 Dermal - rat - > 2,000 mg/kg

#### Irritation and corrosion

Skin - rabbit - Skin irritation

Eves - rabbit - Moderate eve irrit

Eyes - rabbit - Moderate eye irritation

#### Sensitisation

no data available

#### **Chronic exposure**

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

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

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

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

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

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Skin

May be harmful if absorbed through skin. Causes skin irritation.

Eyes

Causes eye irritation.

Ingestion

Harmful if swallowed

### **SECTION 12 Ecological Information**

12.1 Toxicity

**Ecotoxicity effects** 

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - 390 mg/l - 24 h EC50 - Scenedesmus subspicatus - 32 mg/l - 72 h

Toxicity to algae

12.2 Persistence and degradability: no data available

12.3 Bioaccumulative potential: no data available

12.4 Mobility in soil: no data available

12.5 Results of PBT and vPvB assessment: no data available

### **SECTION 13 Disposal Considerations**

13.1 Waste Treatment Methods

13.1.1 Product/ Packaging disposal

Waste Category based on European Council directive on Waste:

080313 (Appendix A -Consolidated European Waste Catalogue)

Classification: Non-hazardous

13.1.2 Waste Disposal Method: Dispose of in accordance with appropriate U.S. Federal, State and local regulations, regulations of Canada and regulations of EU member states. .

### **SECTION 14 Transport Information**

### **Canadian TDG Shipping Description:**

Shipping name: Thiourea Dioxide Hazard Class: 4.2 Packing group: II

DOT (US)

UN-Number: 3341

Class: 4.2 Packing group: II

Proper shipping name: Thiourea dioxide

Marine pollutant: No

Poison Inhalation Hazard: No

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**IMDG** 

UN-Number: 3341 Class: 4.2 Packing group: II Proper shipping name: THIOUREA DIOXIDE

Marine pollutant: No

IATA

UN-Number:3341

Class: 4.2 Packing group: II

Proper shipping name: Thiourea dioxide

## SECTION 15 Regulatory Information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

The product is not on the list of controlled substances of the following:

Regulation(EC) No.2037/2000 Regulation(EC) No. 850/2004 Regulation(EC) No. 1999/13

OSHA Hazards: Unstable Reactive, Harmful by ingestion., Irritant

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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

SARA 311/312Hazards

Reactivity Hazard, Acute Health Hazard

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

Aminoiminomethanesulphinic acid CAS-No. 1758-73-2

New Jersey Right To Know Components

Aminoiminomethanesulphinic acid CAS-No. 1758-73-2

California Prop. 65 Components

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

U.S. TSCA Inventory Status: CAS #: 1758-73-2 is listed on the TSCA inventory

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Canadian DSL / NDSL Inventory Status: CAS # 1758-73-2 is listed on the DSL List.

**HMIS Classification** 

Health Hazard: 2 Flammability: 0 Physical hazards: 3

#### SECTION 16

Other Information

DISCLAIMER: All information presented herein is given in good faith and is based on sources and tests are considered to be reliable but cannot be guaranteed. It is the user's full responsibility to accept risk for the safety, toxicity, handling, storage, and use of the product as well as to determine the suitability of this product for a specific purpose. We can make no warranty as to the results to be obtained in using the product. Therefore the user must assume all risk.

MSDS Prepared by: Discovery/Lancer Group

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