

# Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015) Issue date: 2021-10-29 Version: 1.0

## **SECTION 1: Identification**

#### 1.1. Product identifier

Product form : Mixture

Product name : HG dishwasher cleaner and refreshener

Type of product : Detergent
Product code : 636 ART
Product group : Trade product

#### 1.2. Recommended use and restrictions on use

Recommended use : Cleaning agent

#### 1.3. Supplier

Manufacturer Distributor

HG International B.V.

Damsluisweg 70

Almere, 1332 EJ

Toolway Industries Ltd.
1-280 Hunter's Valley Road
Woodbridge, On L4H 3V9
The Netherlands

Canada

T +31 (0)36 54 94 700 safety@hg.eu - www.hg.eu

#### 1.4. Emergency telephone number

Emergency number : +31 (0)36 54 94 777

Only for medical personnel

Mon-Fri 09:00 AM - 05:00 PM (CEST)

| Country | Organization/Company | Address | Emergency number | Comment                        |
|---------|----------------------|---------|------------------|--------------------------------|
| Canada  | Chemtrec             |         | (813) 248 0585   | Toll Free (800) 255 3924 (24h) |

#### **SECTION 2: Hazard identification**

## 2.1. Classification of the substance or mixture

#### Classification (GHS CA)

Serious eye damage/eye irritation Category 2 H319 Causes serious eye irritation
Skin sensitization, Category 1 H317 May cause an allergic skin reaction

Hazardous to the aquatic environment - Acute Hazard Category 3 H402 Harmful to aquatic life

Hazardous to the aquatic environment - Chronic Hazard Category 3 H412 Harmful to aquatic life with long lasting effects

Full text of H statements : see section 16

## 2.2. GHS Label elements, including precautionary statements

#### **GHS CA labeling**

Hazard pictograms (GHS CA)



Signal word (GHS CA) : Warning

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Hazard statements (GHS CA) : H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS CA) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children. P103 - Read label before use.

P261 - Avoid breathing dust, fume.

P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.
P280 - Wear eye protection, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS CA)

No data available

## **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name             | Chemical name / Synonyms | Product identifier | %            | Classification (GHS CA)  |
|------------------|--------------------------|--------------------|--------------|--|
| Sodium carbonate | Bases                    | CAS-No.: 497-19-8  | ≥ 15 – < 25  | Eye Irrit. 2, H319   |
| d-Limonene       | Terpenes                 | CAS-No.: 5989-27-5 | ≥ 0.1 – < 1  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| GERANYL ACETATE  | -                        | CAS-No.: 105-87-3  | ≥ 0.01 – < 1 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412   |
| Geraniol         | Alcohols                 | CAS-No.: 106-24-1  | ≥ 0.01 – < 1 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317  |

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| Name   | Chemical name / Synonyms | Product identifier | %            | Classification (GHS CA)   |
|--------|--------------------------|--------------------|--------------|---|
| Citral | Aldehydes                | CAS-No.: 5392-40-5 | ≥ 0.01 – < 1 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317 |

Full text of hazard classes and H-statements: see section 16

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting without medical advice. If you feel unwell,

seek medical advice.

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

# 5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

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#### 6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing

dust, fume. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated

clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands

after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Heat-ignition : Keep away from heat and direct sunlight.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Citral (5392-40-5)  |   |  |
|---|---|--|
| Canada (British Columbia) - Occupational Exposure Limits          |   |  |
| Local name  | Citral, inhalable   |  |
| Notations and remarks   | Skin; S(D) (dermal sensitization)   |  |
| Regulatory reference  | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)  |  |
| Canada (Manitoba) - Occupational Exposure Limits                  |   |  |
| Local name  | Citral  |  |
| OEL TWA [ppm]   | 5 ppm (IFV - Inhalable fraction and vapor)  |  |
| Notations and remarks   | TLV® Basis: Body weight eff; URT irr; eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen) |  |
| Regulatory reference  | ACGIH   |  |
| Canada (New Brunswick) - Occupational Exposure Limits             |   |  |
| Local name  | Citral  |  |
| OEL TWA [ppm]   | 5 ppm   |  |
| Notations and remarks   | Body weight eff; URT irr; eye dam; Skin; DSEN; A4   |  |
| Canada (Newfoundland and Labrador) - Occupational Exposure Limits |   |  |
| Local name  | Citral  |  |
| OEL TWA [ppm]   | 5 ppm (IFV - Inhalable fraction and vapor)  |  |

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| Citral (5392-40-5)   |   |  |
|--|---|--|
| Notations and remarks  | TLV® Basis: Body weight eff; URT irr; eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen) |  |
| Regulatory reference   | ACGIH   |  |
| Canada (Nova Scotia) - Occupational Exposure Lin             | nits  |  |
| Local name   | Citral  |  |
| OEL TWA [ppm]  | 5 ppm (IFV - Inhalable fraction and vapor)  |  |
| Notations and remarks  | TLV® Basis: Body weight eff; URT irr; eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen) |  |
| Regulatory reference   | ACGIH   |  |
| Canada (Ontario) - Occupational Exposure Limits              |   |  |
| Local name   | Citral  |  |
| OEL TWA [ppm]  | 5 ppm (IFV - Inhalable fraction and vapour)   |  |
| Notations and remarks  | Skin  |  |
| Regulatory reference   | Ontario Occuational Exposure Limits under Regulation 833  |  |
| Canada (Prince Edward Island) - Occupational Exposure Limits |   |  |
| Local name   | Citral  |  |
| OEL TWA [ppm]  | 5 ppm (IFV - Inhalable fraction and vapor)  |  |
| Notations and remarks  | TLV® Basis: Body weight eff; URT irr; eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen) |  |
| Regulatory reference   | ACGIH   |  |

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Protective shoes.

| Hand protection:  |                      |                   |                |             |
|-------------------|----------------------|-------------------|----------------|-------------|
| Protective gloves |                      |                   |                |             |
| Туре              | Material             | Permeation        | Thickness (mm) | Penetration |
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0.35           |             |
| Disposable gloves | butyl rubber         | 6 (> 480 minutes) | 0.5            |             |

| Eye protection:                          |                       |                 |
|--|-----------------------|-----------------|
| Safety glasses with side shields. EN 166 |                       |                 |
| Туре                                     | Field of application  | Characteristics |
| Safety glasses                           | Normal use conditions |                 |

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#### Skin and body protection:

Long sleeved protective clothing. Chemical resistant safety shoes

#### Respiratory protection:

No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment

| Device    | Filter type | Condition       |
|-----------|-------------|-----------------|
| Dust mask | FFFP2       | Dust protection |

#### Personal protective equipment symbol(s):









#### Other information:

Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : No data available

Color : white

Odor : Lemon-like odour
Odor threshold : No data available

pH : 11 pH solution : 10 %

Relative evaporation rate (butyl acetate=1) : No data available Relative evaporation rate (ether=1) : No data available Melting point : No data available Freezing point : No data available

Boiling point :  $35 \, ^{\circ}\text{C}$  Flash point :  $> 60 \, ^{\circ}\text{C}$ 

Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Non flammable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available : No data available Relative density Solubility No data available Partition coefficient n-octanol/water (Log Pow) No data available Viscosity, kinematic No data available **Explosion limits** No data available

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability : Stable under normal conditions.

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Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.

Conditions to avoid : None under recommended storage and handling conditions (see section 7).

Incompatible materials : No additional information available

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

Hardening time: : No additional information available

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Not classified              |  |  |
|-----------------------------|--|--|
| Sodium carbonate (497-19-8) |  |  |
| 2800 mg/kg body weight      |  |  |
| 4090 mg/kg body weight      |  |  |
| > 2000 mg/kg body weight    |  |  |
| > 2000 mg/kg body weight    |  |  |
| 2300 mg/l                   |  |  |
| 2800 mg/kg body weight      |  |  |
| 2300 mg/l/4h                |  |  |
|                             |  |  |
| 6330 mg/kg body weight      |  |  |
| 6330 mg/kg body weight      |  |  |
|                             |  |  |
| 3600 mg/kg body weight      |  |  |
| 2100 mg/kg body weight      |  |  |
| > 5000 mg/kg body weight    |  |  |
| > 5000 mg/kg body weight    |  |  |
| 2100 mg/kg body weight      |  |  |
| Citral (5392-40-5)          |  |  |
| ≈ 6800 mg/kg body weight    |  |  |
| 4960 mg/kg body weight      |  |  |
| > 2000 mg/kg body weight    |  |  |
| 2250 mg/kg                  |  |  |
| 2250 mg/kg body weight      |  |  |
| 4960 mg/kg body weight      |  |  |
| 2250 mg/kg body weight      |  |  |
| d-Limonene (5989-27-5)      |  |  |
| > 2000 mg/kg body weight    |  |  |
|                             |  |  |

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| d-Limonene (5989-27-5)                   |  |  |
|--|--|--|
| LD50 oral                                | 4400 mg/kg body weight                     |  |
| LD50 dermal rabbit                       | > 5000 mg/kg                               |  |
| LD50 dermal                              | > 2000 mg/kg body weight                   |  |
| ATE CA (oral)                            | 4400 mg/kg body weight                     |  |
| Skin corrosion/irritation                | : Not classified pH: 11                    |  |
| Serious eye damage/irritation            | : Causes serious eye irritation.<br>pH: 11 |  |
| Respiratory or skin sensitization        | : May cause an allergic skin reaction.     |  |
| Germ cell mutagenicity                   | : Not classified                           |  |
| Carcinogenicity                          | : Not classified                           |  |
| Geraniol (106-24-1)                      |  |  |
| NOAEL (chronic,oral,animal/male,2 years) | 60 mg/kg body weight                       |  |
| Citral (5392-40-5)                       |  |  |
| NOAEL (chronic,oral,animal/male,2 years) | 60 mg/kg body weight                       |  |
| Reproductive toxicity                    | : Not classified                           |  |
| STOT-single exposure                     | : Not classified                           |  |
| STOT-repeated exposure                   | : Not classified                           |  |
| GERANYL ACETATE (105-87-3)               |  |  |
| NOAEL (oral,rat,90 days)                 | 2000 mg/kg body weight                     |  |
| Geraniol (106-24-1)                      |  |  |
| NOAEL (dermal,rat/rabbit,90 days)        | 300 mg/kg body weight                      |  |
| Aspiration hazard                        | : Not classified                           |  |
| Symptoms/effects after skin contact      | : May cause an allergic skin reaction.     |  |
| Symptoms/effects after eye contact       | : Eye irritation.                          |  |

# **SECTION 12: Ecological information**

## 12.1. Toxicity

: Harmful to aquatic life. Harmful to aquatic life with long lasting effects. Ecology - general

: Harmful to aquatic life. Hazardous to the aquatic environment, short-term

Hazardous to the aquatic environment, long-term

: Harmful to aquatic life with long lasting effects.

(chronic)

| Sodium carbonate (497-19-8)                     |                    |
|---|--------------------|
| LC50 - Fish [1]                                 | 300 mg/l           |
| EC50 - Crustacea [1]                            | 200 – 227 mg/l     |
| EC50 - Crustacea [2]                            | 200 – 227 mg/l     |
| EC50 - Other aquatic organisms [1]              | 265 mg/l waterflea |
| EC50 96h - Algae [1]                            | 242 mg/l           |
| Partition coefficient n-octanol/water (Log Pow) | -6.19              |

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| GERANYL ACETATE (105-87-3)                      |                     |  |
|---|---------------------|--|
| LC50 - Fish [1]                                 | 68.12 mg/l          |  |
| EC50 - Crustacea [1]                            | 14.1 mg/l           |  |
| EC50 72h - Algae [1]                            | 3.72 mg/l           |  |
| EC50 96h - Algae [1]                            | 0.122 mg/l          |  |
| Geraniol (106-24-1)                             |                     |  |
| LC50 - Fish [1]                                 | 22 mg/l             |  |
| EC50 - Crustacea [1]                            | 10.8 mg/l           |  |
| EC50 - Other aquatic organisms [1]              | 10.8 mg/l waterflea |  |
| EC50 - Other aquatic organisms [2]              | 13.1 mg/l           |  |
| EC50 72h - Algae [1]                            | 13.1 mg/l           |  |
| Partition coefficient n-octanol/water (Log Pow) | 3.5                 |  |
| Citral (5392-40-5)                              |                     |  |
| LC50 - Fish [1]                                 | 4.1 mg/l            |  |
| EC50 - Crustacea [1]                            | 6.8 mg/l            |  |
| EC50 - Other aquatic organisms [1]              | 7 mg/l waterflea    |  |
| EC50 - Other aquatic organisms [2]              | 5 mg/l              |  |
| EC50 72h - Algae [1]                            | 103.8 mg/l          |  |
| Partition coefficient n-octanol/water (Log Pow) | 2.8                 |  |
| d-Limonene (5989-27-5)                          |                     |  |
| LC50 - Fish [1]                                 | 0.72 mg/l           |  |
| LC50 - Fish [2]                                 | 702 μg/l            |  |
| EC50 - Crustacea [1]                            | 0.307 mg/l          |  |
| EC50 - Crustacea [2]                            | 0.51 mg/l           |  |
| EC50 - Other aquatic organisms [1]              | 0.36 mg/l waterflea |  |
| EC50 72h - Algae [1]                            | 0.32 mg/l           |  |
| EC50 72h - Algae [2]                            | 0.214 mg/l          |  |
| Partition coefficient n-octanol/water (Log Pow) | 4.38                |  |

# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

| Sodium carbonate (497-19-8)                           |  |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) -6.19 |  |
| Geraniol (106-24-1)                                   |  |
| Partition coefficient n-octanol/water (Log Pow) 3.5   |  |

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| Citral (5392-40-5)                                   |  |
|--|--|
| Partition coefficient n-octanol/water (Log Pow) 2.8  |  |
| d-Limonene (5989-27-5)                               |  |
| Partition coefficient n-octanol/water (Log Pow) 4.38 |  |

# 12.4. Mobility in soil

| Sodium carbonate (497-19-8)                         |       |
|---|-------|
| Partition coefficient n-octanol/water (Log Pow)     | -6.19 |
| Geraniol (106-24-1)                                 |       |
| Partition coefficient n-octanol/water (Log Pow) 3.5 |       |
| Citral (5392-40-5)                                  |       |
| Partition coefficient n-octanol/water (Log Pow)     | 2.8   |
| d-Limonene (5989-27-5)                              |       |
| Partition coefficient n-octanol/water (Log Pow)     | 4.38  |

#### 12.5. Other adverse effects

Ozone : Not classified

## **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

In accordance with TDG / DOT / IMDG / IATA

| TDG                              | DOT                            | IMDG           | IATA           |
|----------------------------------|--------------------------------|----------------|----------------|
| 14.1. UN number                  | 14.1. UN number                |                |                |
| Not regulated for transport      |                                |                |                |
| 14.2. Proper Shipping Name       |                                |                |                |
| Not applicable                   | Not applicable                 | Not applicable | Not applicable |
| Transport document description   | Transport document description |                |                |
| Not applicable                   | Not applicable                 | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) |                                |                |                |
| Not applicable                   | Not applicable                 | Not applicable | Not applicable |
| 14.4. Packing group              |                                |                |                |
| Not applicable                   | Not applicable                 | Not applicable | Not applicable |
| 14.5. Environmental hazards      |                                |                |                |
| Not applicable                   | Not applicable                 | Not applicable | Not applicable |

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| TDG                                    | DOT | IMDG | IATA |
|--|-----|------|------|
| No supplementary information available |     |      |      |

#### 14.6. Special precautions for user

#### TDG

No data available

#### DOT

No data available

#### **IMDG**

No data available

#### IATA

No data available

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

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. National regulations

#### Sodium carbonate (497-19-8)

Listed on the Canadian DSL (Domestic Substances List)

#### **GERANYL ACETATE (105-87-3)**

Listed on the Canadian DSL (Domestic Substances List)

#### **Geraniol (106-24-1)**

Listed on the Canadian DSL (Domestic Substances List)

#### Citral (5392-40-5)

Listed on the Canadian DSL (Domestic Substances List)

## d-Limonene (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

### Sodium carbonate (497-19-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### **GERANYL ACETATE (105-87-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

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#### **Geraniol (106-24-1)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Citral (5392-40-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### d-Limonene (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

## **SECTION 16: Other information**

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Other information

: DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

| Full text of H-phrases: |  |
|-------------------------|--|
| H226                    | Flammable liquid and vapor                           |
| H304                    | May be fatal if swallowed and enters airways         |
| H315                    | Causes skin irritation                               |
| H317                    | May cause an allergic skin reaction                  |
| H318                    | Causes serious eye damage                            |
| H319                    | Causes serious eye irritation                        |
| H400                    | Very toxic to aquatic life                           |
| H402                    | Harmful to aquatic life                              |
| H410                    | Very toxic to aquatic life with long lasting effects |
| H412                    | Harmful to aquatic life with long lasting effects    |

| Abbreviations and acronyms: |                                  |
|-----------------------------|----------------------------------|
| CAS-No.                     | Chemical Abstract Service number |
| ATE                         | Acute Toxicity Estimate          |
| BCF                         | Bioconcentration factor          |
| BOD                         | Biochemical oxygen demand (BOD)  |
| COD                         | Chemical oxygen demand (COD)     |
| EC50                        | Median effective concentration   |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| EN                          | European Standard                                      |
| IARC                        | International Agency for Research on Cancer            |
| IATA                        | International Air Transport Association                |
| IMDG                        | International Maritime Dangerous Goods                 |
| LC50                        | Median lethal concentration                            |
| LD50                        | Median lethal dose                                     |
| LOAEL                       | Lowest Observed Adverse Effect Level                   |
| N.O.S.                      | Not Otherwise Specified                                |
| NOAEC                       | No-Observed Adverse Effect Concentration               |
| NOAEL                       | No-Observed Adverse Effect Level                       |
| NOEC                        | No-Observed Effect Concentration                       |
| OECD                        | Organisation for Economic Co-operation and Development |
| OEL                         | Occupational Exposure Limit                            |
| ThOD                        | Theoretical oxygen demand (ThOD)                       |
| SDS                         | Safety Data Sheet                                      |

Safety Data Sheet (SDS), Canada

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.