# SAFETY DATA SHEET

**Fury GEO**

This safety data sheet complies with the requirements of:
Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008

**SDS # :** FO000599-A
**Revision date:** 2020-02-25
**Format:** EU
**Version** 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Code(s)** FO000599-A

**Legacy Product Code** 6543

**Product Name** Fury GEO

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use:** Insecticide

**Restrictions on Use:** Use as recommended by the label.

### 1.3. Details of the supplier of the safety data sheet

**Supplier**

CHEMINOVA A/S, a subsidiary of FMC Corporation
Thyborønvej 78
DK-7673 Harboøre
Denmark
+45 9690 9690
SDS.Ronland@fmc.com

For further information, please contact:

**Contact point**

E-Mail: SDS-Info@fmc.com
Phone: +1 215-299-6000 (General Information)

### 1.4. Emergency telephone number

**Emergency telephone**

Medical emergencies:

Austria: +43 1 406 43 43
Belgium: +32 70 245 245
Bulgaria: +359 2 9154 409
Cyprus: 1401
Czech Republic: +420 224 919 293, +420 224 915 402
Denmark: +45 82 12 12 12
France: +33 (0) 1 45 42 59 59
Finland: +358 9 471 977
Greece: 30 210 77 93 777
Hungary: +36 80 20 11 99
Ireland (Republic): +352 1 809 2166
Italy: +39 02 6610 1029
Lithuania: +370 523 62052, +370 687 53378
Luxembourg: +352 8002 5500
Netherlands: +31 30 274 88 88
Norway: +47 22 591300
Poland: +48 22 619 66 54, +48 22 619 08 97

Portugal: 800 250 250 (in Portugal only), +351 21 330 3284
Romania: +40 21318 3606
Slovakia: +421 2 54 77 4 166
Slovenia: +386 41 650 500
Spain: +34 91 562 04 20
Sweden: +46 08-331231112
Switzerland: 145
United Kingdom: 0870 600 6266 (in the UK only)
U.S.A. & Canada: +1 800 / 331-3148
All other countries: +1 651 / 632-6793 (Collect)

For leak, fire, spill, or accident emergencies, call:
1 800 / 424-9300 (CHEMTREC - U.S.A. & Canada)
1 703 / 527 3887 (CHEMTREC - All Other Countries - Collect)

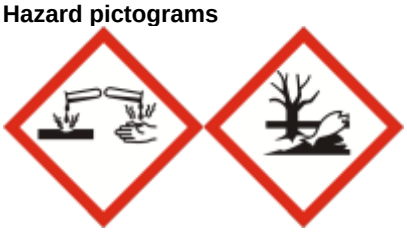
## Section 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture** *Regulation (EC) No 1272/2008*

| | |
|---|---|
| **Serious eye damage/eye irritation** | Category 1 (H318) |
| **Acute aquatic toxicity** | Category 1 (H400) |
| **Chronic aquatic toxicity** | Category 1 (H410) |

**2.2. Label elements**

**Hazard pictograms**



**Signal Word**
Danger

**Hazard Statements**
H318 - Causes serious eye damage
H410 - Very toxic to aquatic life with long lasting effects

EUH401: Follow the instructions for use to avoid risks to human health and the environment.

**Precautionary Statements**
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P391 - Collect spillage
P501: Dispose of contents/container as hazardous waste in accordance with local regulations.

**2.3. Other hazards**
This product is not identified as a PBT/vPvB substance.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

The product is a mixture, not a substance.

**3.2 Mixtures**

| Chemical name | EC-No | CAS-No | Weight % | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH registration number |
|---|---|---|---|---|---|
| 2-Ethylhexyl-S-(-)-2-Hydroxy Propionate | - | 186817-80-1 | 5 - 10 | Skin Corr./Irrit. 2 (H319)<br>Skin Sens. 1 (H315)<br>Eye Dam./Irrit. 2 (H317) | 01-2119516238-41 |
| Zeta-cypermethrin | Present | 52315-07-8 | 0.8 | Acute Tox. 3 (H301)<br>Acute Tox. 4 (H332)<br>STOT SE 3 (H335)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | No data available |

**Additional Information**
For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16

## Section 4: FIRST AID MEASURES

**4.1. Description of first aid measures**

**General Advice** — In case of exposure, do not wait for symptoms to develop, but immediately start the recommended procedures below.

**Eye Contact** — Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

**Skin Contact** — Do not start with flushing with water, but wipe off with dry cloth or using talcum powder, followed by washing with water and soap. Thereafter apply vitamin E cream or fatty skin care oil or cream. Consult a physician if necessary.

**Inhalation** — If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.

**Ingestion** — Rinse mouth with water and afterwards drink plenty of water or milk. Do NOT induce vomiting. If vomiting does occur, rinse mouth and drink fluids again. Immediately call a POISON CENTER or doctor/ physician.

**4.2. Most important symptoms and effects, both acute and delayed**

**Most important symptoms and effects, both acute and delayed** — Zeta-cypermethrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia).

**4.3. Indication of any immediate medical attention and special treatment needed**

**Indication of immediate medical attention and special treatment needed, if necessary** — If any sign of poisoning occurs, call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to a pyrethroid insecticide. Describe his/her condition and the extent of exposure. Immediately remove the exposed person from the area where the product is present.

As soon as a feeling of tingling is noted in any skin area (see section 11), it is recommended to immediately apply lidocain a or vitamin E cream. For this purpose lidocain or vitamin E cream should be available at the workplace.

It may be helpful to show this safety data sheet to physician.

NOTES TO PHYSICIAN: A specific antidote against this substance is not known. Gastric lavage and administration of activated charcoal can be considered. Normally recovery is

spontaneous.

If allowed to penetrate the skin, zeta-cypermethrin may cause an irritation similar to sunburn. The substance will be drawn into a non-polar environment such as a fat based oil or cream. Vitamin E cream has been reported to be beneficial. Water is highly polar and will not decrease, but may prolong the irritation. Hot water may increase the pain.

For eye contamination, instillation of local anesthetic can be considered.

## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

| | |
|---|---|
| **Small Fire** | Dry chemical. Carbon dioxide ($CO_2$). |
| **Large Fire** | Water spray. Foam. |

**Unsuitable extinguishing media**
Avoid heavy hose streams.

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

| | |
|---|---|
| **Hazardous Combustion Products** | The essential breakdown products are volatile, toxic, irritant and inflammable compounds such as nitrogen oxides, hydrogen chloride, carbon monoxide, carbon dioxide and various chlorinated organic compounds. Hydrogen cyanide. |

### 5.3. Advice for firefighters

Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

## Section 6: ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions**
It is recommended to have a predetermined plan for the handling of spills. Empty, closable vessels for the collection of spills should be available.

In case of large spill (involving 1 tonnes of the product or more):

1. use personal protection equipment (see Section 8)
2. call emergency telephone number in Section 1.
3. alert authorities.

Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and rubber boots. Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area.

For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**For emergency responders**
Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering

surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

**Methods for Containment**

Nearby surface water drains should be covered. Minor spills on the floor or other impervious surface should immediately be swept up or preferably vacuumed up using equipment with high efficiency final filter. Transfer to suitable containers. Clean area with detergent and water. Do not let wash liquid enter drains or waterways. Absorb wash liquid with an inert absorbent such as universal binder, Fuller's earth, bentonite or other absorbent clay and collect in suitable containers. The used containers should be properly closed and labelled.

Large spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal. Large spills which soak into the ground should be dug up and transferred to suitable containers.

**Methods for cleaning up**

Pick up and transfer to properly labeled containers.

### 6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Handling**

In an industrial environment, it is recommended to avoid any personal contact with the product, if possible, using remotely controlled systems with remote control. Otherwise, it is recommended to process the material with maximum mechanical means. Adequate ventilation or local exhaust ventilation is required. Exhaust gases must be filtered or treated differently. For personal protection in this situation, see Section 8.

Remove contaminated clothing and shoes. Wash thoroughly after handling. Use protective gloves made from chemicals such as nitrile or neoprene. Wash gloves with soap and water before reuse. Check regularly for leaks. Do not dispose into the environment. Do not contaminate water when disposing of the flushing water for equipment. Collect all waste and residues from cleaning equipment, etc. And dispose of them as hazardous waste. See Section 13 for disposal.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

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

**Storage**

The product is stable under normal conditions of warehouse storage.

Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

### 7.3. Specific end use(s)

**Specific Use(s)**

The product is a registered pesticide which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.

**Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

To our knowledge, no exposure limit values have been established.

**Derived No Effect Level (DNEL)**

Zeta-cypermethrin:
DNEL not established
EFSA has established an AOEL of 0.02 mg/kg bw/day

Propanoic acid, 2-hydroxy-, 2-ethyl-hexyl ester, (2S)-:
DNEL, inhalation = 8 mg/m$^3$
DNEL, dermal = Low hazard.

**Predicted No Effect Concentration (PNEC)**

Zeta-cypermethrin:
PNEC, aquatic environment = 0.0013 ng/L

Propanoic acid, 2-hydroxy-, 2-ethyl-hexyl ester, (2S)-:
PNEC, fresh water = 8 ug/L
PNEC, marine water = 0.8 ug/L.

**8.2. Exposure controls**

**Engineering measures**

When used in a closed system, personal protection equipment will not be required. The following is meant for other situations, when the use of a closed system is not possible, or when it is necessary to open the system. Consider the need to render equipment or piping systems non-hazardous before opening.

The precautions mentioned below are primarily meant for handling of the undiluted product and for preparing the spray solution, but can be recommended for spraying as well.

In cases of incidental high exposure, maximal personal protection maybe necessary, such as respirator, face mask, chemical resistant coveralls.

### Personal protective equipment

**Eye/Face Protection**

Wear face mask rather than goggles or safety glasses. The possibility of eye contact should be excluded.

**Hand Protection**

Wear long chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber. The breakthrough times of these materials for the product are unknown. Generally, however, the use of protective gloves will give only partial protection against dermal exposure. Small tears in the gloves and cross-contamination can easily occur. It is recommended to limit the work to be done manually and to change the gloves frequently. Be careful not to touch anything with contaminated gloves. Used gloves should be thrown out and not be reused.

**Skin and Body Protection**

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of appreciable or prolonged exposure, coveralls of barrier laminate may be required.

**Respiratory Protection**

The product does not automatically present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment with a universal filter type including particle filter.

**Environmental exposure controls**

Do not release to the environment.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

| | |
|---|---|
| **Physical State** | Solid |
| **Appearance** | Granules |
| **Odor** | Slight |

| | |
|---|---|
| **Color** | Beige |
| **Odor threshold** | No information available |
| **pH** | No information available |
| **Melting point/freezing point** | No information available |
| **Boiling Point/Range** | No information available |
| **Flash point** | No information available |
| **Evaporation Rate** | No information available |
| **Flammability (solid, gas)** | Not highly flammable |
| **Flammability Limit in Air** | |
| **Upper flammability limit:** | No information available |
| **Lower flammability limit:** | No information available |
| **Vapor pressure** | Zeta-cypermethrin : 2.53 x 10-7 Pa @ 25°C |
| **Vapor density** | No information available |
| **Specific gravity** | Not determined<br>Density: 0.992 - 1.039 g/cm$^3$ |
| **Water solubility** | Dispersible in water |
| **Solubility in other solvents** | No information available |
| **Partition coefficient** | Zeta-cypermethrin : log Kow = 5 - 6 @ 24°C |
| **Autoignition temperature** | > 400°C |
| **Decomposition temperature** | No information available |
| **Viscosity, kinematic** | No information available |
| **Viscosity, dynamic** | No information available |
| **Explosive properties** | Not explosive |
| **Oxidizing properties** | Non-oxidizing |

**9.2. Other information**

| | |
|---|---|
| **Softening point** | No information available |
| **Molecular weight** | No information available |
| **VOC content (%)** | No information available |
| **Relative density** | No information available |
| **Bulk density** | No information available |
| **$K_{st}$** | No information available |

## Section 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

None under normal use conditions

**10.2. Chemical stability**

Stable under recommended storage conditions.

**Explosion data**

| | |
|---|---|
| **Sensitivity to Mechanical Impact** | No information available. |
| **Sensitivity to Static Discharge** | No information available. |

**10.3. Possibility of hazardous reactions**

**Hazardous polymerization**
Hazardous polymerization does not occur.

**Hazardous reactions**
None under normal processing.

**10.4. Conditions to avoid**

Heating of the product will produce harmful and irritant vapors.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

See Section 5.2 for more information.

## Section 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects**

**Acute toxicity**

**Product Information**

.

| | |
|---|---|
| **LD50 Oral** | > 2000 mg/kg (rat) |
| **LD50 Dermal** | > 2000 mg/kg (rabbit) |
| **LC50 Inhalation (dust)** | > 5.54 mg/L (rat) 4 hr |

| | |
|---|---|
| **Skin corrosion/irritation** | Non-irritating. |
| **Serious eye damage/eye irritation** | Causes serious eye irritation. |
| **Sensitization** | Non-sensitizing |
| **Mutagenicity** | The product contains no ingredients known to be mutagenic. |
| **Carcinogenicity** | The product contains no ingredients known to be carcinogenic. |

| | |
|---|---|
| **Reproductive toxicity** | The product contains no ingredients known to have adverse effects on reproduction. |
| **STOT - single exposure** | No specific effects after single exposure have been observed. |
| **STOT - repeated exposure** | Causes damage to organs through prolonged or repeated exposure. See listed target organs below. |
| **Target organ effects** | Nervous system. |
| **Symptoms** | Zeta-cypermethrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia). Large doses of zeta-cypermethrin, ingested by laboratory animals, may produce signs of toxicity including tremors, incoordination, convulsions, staggered gait, and oral discharge. |
| **Aspiration hazard** | The product does not present an aspiration pneumonia hazard. |

## Section 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**

There are no data available for this product. The ecotoxicity of the active ingredient is measured as:

- Fish: Rainbow trout (Oncorhynchus mykiss) 96-h LC50: 0.7 ug/L

- Invertebrates: Daphnids (Daphnia magna) = 48-h LC50: 0.14 ug/L

- Invertebrates: Amphipods (Gammarus pulex) = 96-h LC50: 0.0013 ug/L

- Algae: Green algae (Pseudokirchneriella subcapitata): 72-h EC50: > 1.0 mg/L.

| **Zeta-cypermethrin (52315-07-8)** | | | | |
|---|---|---|---|---|
| Active Ingredient(s) | Duration | Species | Value | Units |
| Zeta-cypermethrin | 48 h EC50 | Crustacea | 0.14 | µg/L |
| | 96 h LC50 | Fish | 0.69 | µg/L |
| | 72 h EC50 | Algae | >1 | mg/L |
| | 21 d NOEC | Crustacea | 0.01 | µg/L |
| | 21 d NOEC | Fish | 0.015 | µg/L |

### 12.2. Persistence and degradability

Not readily biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential.

### 12.4. Mobility in soil

**Mobility in soil**
Not mobile in soil.

### 12.5. Results of PBT and vPvB assessment

None of the ingredients in the product meets the criteria for being PBT or vPvB.

### 12.6. Other adverse effects

None known

| Chemical name | EU - Endocrine Disrupters Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Japan - Endocrine Disruptor Information |
|---|---|---|---|
| Zeta-cypermethrin | Group III Chemical | - | - |

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Residual waste**

Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste. Disposal of waste and packaging must always be in accordance with all applicable local regulations.

According to the Waste Framework Directive (2008/98/EC), possibilities for reuse or reprocessing should first be considered. If this is not feasible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

**Contaminated containers and packages**

It is recommended to consider possible ways of disposal in the following order:

1. Reuse or recycling should first be considered. Reuse is prohibited except by the authorisation holder. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.

2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

3. Delivery of the packaging to a licensed service for disposal of hazardous waste.

4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill containers should be emptied completely, rinsed and punctured to make them unusable for other purposes. If burned, stay out of smoke.

## Section 14: TRANSPORT INFORMATION

**IMDG/IMO**
**14.1 UN/ID no** UN3077

| | |
|---|---|
| **14.2 Proper Shipping Name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zeta-cypermethrin) |
| **14.3 Hazard class** | 9 |
| **14.4 Packing Group** | III |
| **14.5 Marine Pollutant** | Zeta-cypermethrin |
| **Environmental Hazard** | Yes |
| **14.6 Special Provisions** | Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not release to the environment |
| **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | The product is not transported in bulk by ship. |

**RID**

| | |
|---|---|
| **14.1 UN/ID no** | UN3077 |
| **14.2 Proper Shipping Name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zeta-cypermethrin) |
| **14.3 Hazard class** | 9 |
| **14.4 Packing Group** | III |
| **14.5 Environmental Hazard** | Yes |
| **14.6 Special Provisions** | Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not release to the environment |

**ADR/RID**

| | |
|---|---|
| **14.1 UN/ID no** | UN3077 |
| **14.2 Proper Shipping Name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zeta-cypermethrin) |
| **14.3 Hazard class** | 9 |
| **14.4 Packing Group** | III |
| **14.5 Environmental Hazard** | Yes |
| **14.6 Special Provisions** | Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment. |

**ICAO/IATA**

| | |
|---|---|
| **14.1 UN/ID no** | UN3077 |
| **14.2 Proper Shipping Name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zeta-cypermethrin) |
| **14.3 Hazard class** | 9 |
| **14.4 Packing Group** | III |
| **14.5 Environmental Hazard** | Yes |
| **14.6 Special Provisions** | Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not release to the environment |

## Section 15: REGULATORY INFORMATION

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

**National regulations**

Seveso category in Annex I to Dir. 2012/18/EU: dangerous for the environment.

The substance is covered by EU chemical legislation.

**European Union**

**Authorizations and/or restrictions on use:**
This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**
Not Applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not Applicable

**International Inventories**

| Chemical name | TSCA (United States) | DSL (Canada) | EINECS/ELINCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|---|---|---|---|---|---|---|---|---|
| 2-Ethylhexyl-S-(-)-2-Hydroxy Propionate 186817-80-1 | X | X | | X | | | | |
| Zeta-cypermethrin 52315-07-8 | | | X | | X | X | X | X |

**15.2. Chemical safety assessment**

A chemical safety assessment is not required to be included for this product.

## Section 16: OTHER INFORMATION

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under sections 2 and 3**
H301 - Toxic if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

**Legend**

| | |
|---|---|
| **ADR:** | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| **CAS:** | CAS (Chemical Abstracts Service) |
| **Ceiling:** | Maximum limit value: |
| **DNEL:** | Derived No Effect Level (DNEL) |
| **EINECS:** | EINECS (European Inventory of Existing Chemical Substances) |
| **GHS:** | Globally Harmonized System (GHS) |
| **IATA:** | International Air Transport Association (IATA) |
| **ICAO:** | International Civil Aviation Organization |
| **IMDG:** | International Maritime Dangerous Goods (IMDG) |
| **LC50:** | LC50 (lethal concentration) |
| **LD50:** | LD50 (lethal dose) |
| **PBT:** | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals |
| **RID:** | Regulations Concerning the International Transport of Dangerous Goods by Rail |
| **STEL:** | Short term exposure limit |
| **SVHC** | SVHC: Substances of Very High Concern for Authorization: |
| **TWA:** | time weighted average |
| **vPvB:** | very Persistent and very Bioaccumulative |

**Classification procedure**
Eye irritation: test data
Hazards to the aquatic environment, chronic: calculation method

**Key literature references and sources for data**
Data measured on the product are unpublished company data. Data on ingredients are available from published literature and can be found several places.

| | |
|---|---|
| **Revision date:** | 2020-02-25 |
| **Reason for revision:** | Format Change. |
| **Training Advice** | This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions. |

**Disclaimer**

**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.**

**Prepared By:**

FMC Corporation

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**End of Safety Data Sheet**