# SAFETY DATA SHEET

# PROLEX INSECTICIDE

| Version | Revision Date: | SDS Number: | Date of last issue: 04/23/2015 |
|---|---|---|---|
| 1.2 | 06/22/2021 | 50001285 | Date of first issue: 04/23/2015 |

## SECTION 1. IDENTIFICATION

**Product identifier**

**Other means of identification**

**Product code** 50001285

**Chemical nature** Mixture

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

**Recommended use** Can be used as insecticide only.

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

**Manufacturer or supplier's details**

**Manufacturer**

FMC Corporation
2929 WALNUT ST
PHILADELPHIA PA, 19104
SDS-Info@fmc.com

**Emergency telephone**

For leak, fire, spill or accident emergencies, call:
1 703 / 741-5970 (CHEMTREC - International)
1 703 / 527-3887 (CHEMTREC - Alternate)
1 800 / 424-9300 (CHEMTREC - U.S.A.)

Medical emergency:
All other countries: +1 651 / 632-6793 (Collect)
U.S.A. & Canada: +1 800 / 331-3148

## SECTION 2. HAZARDS IDENTIFICATION

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

| | | |
|---|---|---|
| Acute toxicity (Inhalation) | : | Category 4 |
| Skin irritation | : | Category 2 |
| Eye irritation | : | Category 2B |
| Respiratory sensitization | : | Category 1 |
| Skin sensitization | : | Category 1 |
| Carcinogenicity | : | Category 1B |
| Specific target organ toxicity - repeated exposure | : | Category 1 (Nervous system) |
| Aspiration hazard | : | Category 1 |

**GHS label elements**

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H304 May be fatal if swallowed and enters airways.
H315 + H320 Causes skin and eye irritation.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H350 May cause cancer.
H372 Causes damage to organs (Nervous system) through prolonged or repeated exposure.

Precautionary Statements :

**Prevention:**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P285 In case of inadequate ventilation wear respiratory protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

**Components**

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|---|---|
| GAMMA-CYHALOTHRIN | 76703-62-3 | >= 10 - < 20 |
| Solvent naphtha (petroleum), heavy arom. | 64742-94-5 | >= 10 - < 20 |
| Alcohols, C12-14-secondary, ethoxylated | 84133-50-6 | >= 1 - < 5 |
| Diphenylmethanediisocyanate, polymeric | 9016-87-9 | >= 0.1 - < 1 |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | >= 0.1 - < 1 |

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.

If inhaled : Call a physician or poison control center immediately.
If unconscious, place in recovery position and seek medical advice.

In case of skin contact : If on skin, rinse well with water.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

Most important symptoms and effects, both acute and : May be fatal if swallowed and enters airways.
Causes skin and eye irritation.

| | | |
|---|---|---|
| delayed | | May cause an allergic skin reaction.<br>Harmful if inhaled.<br>May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>May cause cancer.<br>Causes damage to organs through prolonged or repeated exposure. |
| Notes to physician | : | Treat symptomatically. |

## SECTION 5. FIRE-FIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Dry chemical, CO2, water spray or regular foam. |
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during fire fighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : | No hazardous combustion products are known |
| Further information | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Ensure adequate ventilation. |
| Environmental precautions | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |

## SECTION 7. HANDLING AND STORAGE

| | | |
|---|---|---|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
| Advice on safe handling | : | Avoid formation of aerosol.<br>Do not breathe vapors/dust. |

Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ingredients with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|
| Solvent naphtha (petroleum), heavy arom. | 64742-94-5 | TWA | 200 mg/m3 (total hydrocarbon vapor) | ACGIH |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | TWA | 0.005 ppm | ACGIH |
| | | C | 0.02 ppm<br>0.2 mg/m3 | OSHA Z-1 |
| | | C | 0.02 ppm<br>0.2 mg/m3 | OSHA P0 |
| | | TWA | 0.005 ppm<br>0.05 mg/m3 | NIOSH REL |
| | | C | 0.02 ppm<br>0.2 mg/m3 | NIOSH REL |

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

| | | |
|---|---|---|
| Skin and body protection | : | Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures | : | When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Appearance | : | suspension |
| Color | : | off-white |
| Odor | : | characteristic |
| pH | : | 4.5 - 5.0 |
| Melting point/freezing point | : | < 32 °F / 0 °C |
| Flash point | : | 414 °F / 212 °C<br>Method: Pensky-Martens closed cup |
| Density | : | 1.04 g/cm3 (68 °F / 20 °C) |
| Autoignition temperature | : | > 752 °F / 400 °C |
| Oxidizing properties | : | Non-oxidizing |

## SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Reactivity | : | No decomposition if stored and applied as directed. |
| Chemical stability | : | No decomposition if stored and applied as directed. |
| Possibility of hazardous reactions | : | No decomposition if stored and applied as directed. |
| Conditions to avoid | : | Heat. |
| Incompatible materials | : | No data available |

## SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

Harmful if inhaled.

**Product:**

Acute oral toxicity : LD50 Oral (Rat, male): 2,250 mg/kg
GLP: yes
Remarks: Information given is based on data obtained from similar product.

Acute inhalation toxicity : LC50 (Rat, male): > 2.72 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
GLP: yes
Remarks: Based on data from similar materials

LC50 (Rat, female): > 2.54 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
GLP: yes
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 Dermal (Rat): > 5,000 mg/kg
GLP: yes
Remarks: Information given is based on data obtained from similar product.

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Assessment : Irritating to skin.

Remarks : May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation**

Causes eye irritation.

**Product:**

Assessment : Mild eye irritation

Remarks : Vapors may cause irritation to the eyes, respiratory system and the skin.

**Respiratory or skin sensitization**

**Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Product:**

Assessment : May cause sensitization by skin contact.

Remarks : Causes sensitization.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**GAMMA-CYHALOTHRIN:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**Solvent naphtha (petroleum), heavy arom.:**

Genotoxicity in vitro : Test Type: reverse mutation assay
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Cytogenetic assay
Species: Rat
Application Route: Intraperitoneal injection
Result: negative
Remarks: Based on data from similar materials

**Diphenylmethanediisocyanate, polymeric:**

Genotoxicity in vitro : Result: equivocal

Genotoxicity in vivo : Result: equivocal

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**4,4'-methylenediphenyl diisocyanate:**

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: negative

Genotoxicity in vivo : Test Type: In vivo mammalian alkaline comet assay
Species: Rat (male)
Application Route: Inhalation
Result: negative

Test Type: Micronucleus test
Species: Rat
Application Route: Inhalation
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**Carcinogenicity**

May cause cancer.

**Components:**

**GAMMA-CYHALOTHRIN:**

| | | |
|---|---|---|
| Carcinogenicity - Assessment | : | Animal testing did not show any carcinogenic effects., Based on data from similar materials |

**Solvent naphtha (petroleum), heavy arom.:**

| | | |
|---|---|---|
| Species | : | Mouse |
| Application Route | : | Dermal |
| Exposure time | : | 104 weeks |
| Result | : | negative |
| Remarks | : | Based on data from similar materials |
| Carcinogenicity - Assessment | : | Limited evidence of carcinogenicity in animal studies |

**Diphenylmethanediisocyanate, polymeric:**

| | | |
|---|---|---|
| Application Route | : | inhalation (dust/mist/fume) |
| | : | 0.006 mg/l |
| Symptoms | : | Tumor |
| Target Organs | : | Respiratory Tract, Lungs |
| Carcinogenicity - Assessment | : | Sufficient evidence of carcinogenicity in animal experiments |

**4,4'-methylenediphenyl diisocyanate:**

| | | |
|---|---|---|
| Species | : | Rat |
| Application Route | : | Inhalation |
| Result | : | positive |
| Symptoms | : | adenocarcinoma |
| Target Organs | : | Respiratory Tract |
| Carcinogenicity - Assessment | : | Weight of evidence does not support classification as a carcinogen |

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

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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

**Reproductive toxicity**

Not classified based on available information.

**Components:**

**GAMMA-CYHALOTHRIN:**

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**Solvent naphtha (petroleum), heavy arom.:**

Effects on fertility : Test Type: Fertility
Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 415
Result: negative
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

**Diphenylmethanediisocyanate, polymeric:**

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

**4,4'-methylenediphenyl diisocyanate:**

Effects on fetal development : Species: Rat, male and female
Application Route: inhalation (dust/mist/fume)
Target Organs: Respiratory Tract

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

**STOT-single exposure**

Not classified based on available information.

**Components:**

**GAMMA-CYHALOTHRIN:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Solvent naphtha (petroleum), heavy arom.:**

Assessment : May cause drowsiness or dizziness.

**Diphenylmethanediisocyanate, polymeric:**

Assessment : May cause respiratory irritation.

**4,4'-methylenediphenyl diisocyanate:**

Assessment : May cause respiratory irritation.

**STOT-repeated exposure**

Causes damage to organs (Nervous system) through prolonged or repeated exposure.

**Components:**

**GAMMA-CYHALOTHRIN:**

| | | |
|---|---|---|
| Target Organs | : | Nervous system |
| Assessment | : | The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1. |

**Diphenylmethanediisocyanate, polymeric:**

| | | |
|---|---|---|
| Routes of exposure | : | Inhalation |
| Target Organs | : | Respiratory Tract, Lungs |
| Assessment | : | The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2. |

**4,4'-methylenediphenyl diisocyanate:**

| | | |
|---|---|---|
| Routes of exposure | : | Inhalation |
| Target Organs | : | Respiratory Tract |
| Assessment | : | The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2. |

**Repeated dose toxicity**

**Components:**

**Solvent naphtha (petroleum), heavy arom.:**

| | | |
|---|---|---|
| Species | : | Rat, male and female |
| NOAEL | : | 300 mg/kg |
| Application Route | : | Oral - gavage |
| Exposure time | : | 90 d |
| Remarks | : | Based on data from similar materials |

| | | |
|---|---|---|
| Species | : | Rat, male and female |
| NOAEL | : | 0.8 - 0.9 mg/l |
| Application Route | : | inhalation (vapor) |
| Exposure time | : | 12 m |
| Symptoms | : | Reduced body weight |

**4,4'-methylenediphenyl diisocyanate:**

| | | |
|---|---|---|
| Species | : | Rat, male and female |
| NOAEL | : | 0.0002 mg/l |
| Application Route | : | Inhalation |
| Test atmosphere | : | dust/mist |
| Method | : | OECD Test Guideline 453 |
| Target Organs | : | Respiratory Tract |
| Symptoms | : | Irritation |
| Remarks | : | Based on data from similar materials |

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:**

**GAMMA-CYHALOTHRIN:**

The substance does not have properties associated with aspiration hazard potential.

**Solvent naphtha (petroleum), heavy arom.:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

**Further information**

**Product:**

| | | |
|---|---|---|
| Remarks | : | Solvents may degrease the skin. |

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Product:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 9.19 mg/l<br>Exposure time: 96 h<br>Remarks: Information given is based on data obtained from similar product. |
| Toxicity to daphnia and other aquatic invertebrates | : | LC50 (Daphnia magna (Water flea)): 2.45 µg/l<br>Exposure time: 48 h<br>Remarks: Information given is based on data obtained from similar product. |
| Toxicity to algae/aquatic plants | : | IC50 (Selenastrum capricornutum (green algae)): 3.17 mg/l<br>Exposure time: 72 h<br>Remarks: Information given is based on data obtained from similar product. |
| Toxicity to soil dwelling organisms | : | LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg<br>Exposure time: 14 d<br>Remarks: Information given is based on data obtained from similar product. |
| Toxicity to terrestrial organisms | : | LD50 (Colinus virginianus (Bobwhite quail)): > 2,000 mg/kg<br>Remarks: Information given is based on data obtained from similar product.<br><br>LD50 (Apis mellifera (bees)): 1.26<br>Exposure time: 48 h<br>End point: Acute oral toxicity<br>Remarks: Information given is based on data obtained from |

similar product.

LD50 (Apis mellifera (bees)): 0.03
Exposure time: 48 h
End point: Acute contact toxicity

**Components:**

**GAMMA-CYHALOTHRIN:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 0.07 µg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | LC50 (Daphnia magna (Water flea)): 0.1 µg/l<br>Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | EC50 (algae): > 2.85 mg/l<br>Exposure time: 72 h<br><br>NOEC (algae): 0.134 mg/l<br>Exposure time: 72 h<br><br>IC50 (Selenastrum capricornutum (green algae)): > 2.85 mg/l<br>Exposure time: 72 h |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 0.0022 µg/l<br>Exposure time: 21 d |
| Toxicity to soil dwelling organisms | : | LC50 (Eisenia fetida (earthworms)): >1300 mg/kg dry weight (d.w.)<br>Exposure time: 14 d |
| Toxicity to terrestrial organisms | : | LD50 (Colinus virginianus (Bobwhite quail)): > 2,000 mg/kg<br><br>LD50 (Apis mellifera (bees)): 0.005 µg/bee<br>Exposure time: 24 h<br>End point: Acute contact toxicity<br><br>LD50 (Apis mellifera (bees)): 4.2 µg/bee<br>Exposure time: 24 h<br>End point: Acute oral toxicity |

**Persistence and degradability**

**Components:**

**GAMMA-CYHALOTHRIN:**

| | | |
|---|---|---|
| Biodegradability | : | Result: Not readily biodegradable.<br>Biodegradation: 21 %<br>Exposure time: 28 d |

**Solvent naphtha (petroleum), heavy arom.:**

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 58.6 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

**Alcohols, C12-14-secondary, ethoxylated:**

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

**Diphenylmethanediisocyanate, polymeric:**

Biodegradability : Result: Not readily biodegradable.
Exposure time: 28 d
Method: OECD Test Guideline 302C

**4,4'-methylenediphenyl diisocyanate:**

Biodegradability : Result: Not biodegradable.
Method: OECD Test Guideline 302C

**Bioaccumulative potential**

**Components:**

**GAMMA-CYHALOTHRIN:**

Bioaccumulation : Remarks: Can accumulate in aquatic organisms.

Partition coefficient: n-octanol/water : log Pow: 5.65

**Solvent naphtha (petroleum), heavy arom.:**

Partition coefficient: n-octanol/water : log Pow: 2.4 - 6.5

**Alcohols, C12-14-secondary, ethoxylated:**

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 15 - 64

Partition coefficient: n-octanol/water : log Pow: 3.3 - 4.4

**Diphenylmethanediisocyanate, polymeric:**

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 92
Exposure time: 28 d

**4,4'-methylenediphenyl diisocyanate:**

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 92
Exposure time: 28 d
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 4.51 (68 °F / 20 °C)

**Mobility in soil**

**Components:**

**GAMMA-CYHALOTHRIN:**

Distribution among environmental compartments : Remarks: immobile

**Other adverse effects**

**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

**International Regulations**

**UNRTDG**

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Gamma-cyhalothrin)

| | | |
|---|---|---|
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |

**IATA-DGR**

| | | |
|---|---|---|
| UN/ID No. | : | UN 3082 |
| Proper shipping name | : | Environmentally hazardous substance, liquid, n.o.s. (Gamma-cyhalothrin) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | Miscellaneous |
| Packing instruction (cargo aircraft) | : | 964 |
| Packing instruction (passenger aircraft) | : | 964 |

**IMDG-Code**

| | | |
|---|---|---|
| UN number | : | UN 3082 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Gamma-cyhalothrin) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| EmS Code | : | F-A, S-F |
| Marine pollutant | : | yes |

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

Not applicable for product as supplied.

**Domestic regulation**

**49 CFR**

Not regulated as a dangerous good

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|---|---|---|---|
| methanol | 67-56-1 | 100 | 100 (F003) |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | 5000 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Respiratory or skin sensitization
Carcinogenicity
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation

**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.

**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

| | | |
|---|---|---|
| sodium hydroxide | 1310-73-2 | >= 0 - < 0.1 % |
| aluminium sulphate | 10043-01-3 | >= 0 - < 0.1 % |

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

| | | |
|---|---|---|
| sodium hydroxide | 1310-73-2 | >= 0 - < 0.1 % |
| aluminium sulphate | 10043-01-3 | >= 0 - < 0.1 % |

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307
This product does not contain any priority pollutants related to the U.S. Clean Water Act

**US State Regulations**

**Massachusetts Right To Know**

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

**Pennsylvania Right To Know**

| | |
|---|---|
| water | 7732-18-5 |
| GAMMA-CYHALOTHRIN | 76703-62-3 |
| Solvent naphtha (petroleum), heavy arom. | 64742-94-5 |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 |
| methanol | 67-56-1 |

**Maine Chemicals of High Concern**

Product does not contain any listed chemicals

**Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

**Washington Chemicals of High Concern**

Product does not contain any listed chemicals

**California Prop. 65**

WARNING: This product can expose you to chemicals including methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

| | | |
|---|---|---|
| TCSI | : | Not in compliance with the inventory |
| TSCA | : | Product contains substance(s) not listed on TSCA inventory. |
| AICS | : | Not in compliance with the inventory |
| DSL | : | This product contains the following components that are not on the Canadian DSL nor NDSL.<br><br>(S)-ALPHA-CYAN-3-PHENOXYBENZYL (1R,3R)-3-[(Z)-2-CHLORO-3,3,3-TRIFLUOROPROPENYL]-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE<br><br>ETHYLENEDIAMINE (AMPHOCHEM) |
| ENCS | : | Not in compliance with the inventory |
| ISHL | : | Not in compliance with the inventory |
| KECI | : | Not in compliance with the inventory |
| PICCS | : | Not in compliance with the inventory |
| IECSC | : | Not in compliance with the inventory |
| NZIoC | : | Not in compliance with the inventory |

**TSCA list**

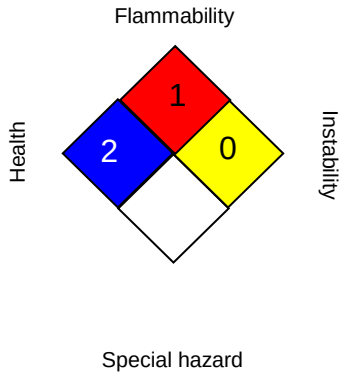
No substances are subject to a Significant New Use Rule.

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

## SECTION 16. OTHER INFORMATION

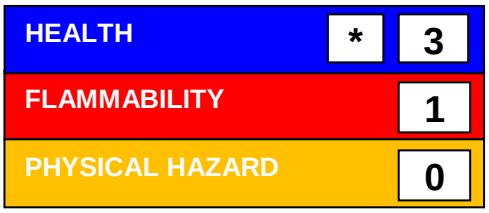
### Further information

**NFPA 704:**




**0** No health threat, **1** Slightly Hazardous, **2** Hazardous, **3** Extreme danger, **4** Deadly

**HMIS® IV:**




HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

| | | |
|---|---|---|
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
| NIOSH REL | : | USA. NIOSH Recommended Exposure Limits |
| OSHA P0 | : | USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000 |
| OSHA Z-1 | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / C | : | Ceiling value not be exceeded at any time. |
| OSHA P0 / C | : | Ceiling limit |
| OSHA Z-1 / C | : | Ceiling |

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;

MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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End of Material Safety Data Sheet