# SAFETY DATA SHEET

**Nufos 4E**

**SDS # :** FO002059-A
**Revision date:** 2018-12-18
**Format:** NA
**Version** 1.01

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name** Nufos 4E

**Other means of identification**

**Product Code(s)** FO002059-A

**Synonyms** CHLORPYRIFOS: O,O-Diethyl O-3,5,6-trichloropyridin-2-yl phosphorothioate

**Active Ingredient(s)** Chlorpyrifos

**Chemical Family** Organophosphate

**PCP #** 25831

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

**Recommended Use:** Insecticide

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

**Supplier Address**

FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104
(215) 299-6000 (General Information)
msdsinfo@fmc.com (E-Mail General Information)

**Emergency telephone number**

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

Medical Emergencies:
1 800 / 331-3148 (U.S.A. & Canada)
1 651 / 632-6793 (All Other Countries - Collect)

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|---|---|
| Acute toxicity - Oral | Category 3 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Flammable liquids | Category 4 |

**GHS Label elements, including precautionary statements**

**EMERGENCY OVERVIEW**

**Danger**

**Hazard Statements**
H301 - Toxic if swallowed
H332 - Harmful if inhaled
H227 - Combustible liquid
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

**Physical Hazards**
H227 - Combustible liquid
Combustible liquid

**Precautionary Statements - Prevention**
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P273 - Avoid release to the environment

**Precautionary Statements - Response**
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P311 - Call a POISON CENTER or doctor
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P330 - Rinse mouth
P391 - Collect spillage

**Precautionary Statements - Storage**
P405 - Store locked up
P403 + P235 - Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**
P501 - Dispose of contents/container according to label directions

**Hazards not otherwise classified (HNOC)**
No hazards not otherwise classified were identified.

**Other Information**
Very toxic to aquatic life with long lasting effects. May be harmful in contact with skin.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Family** Organophosphate.

| Chemical name | CAS-No | Weight % |
|---|---|---|
| Chlorpyrifos | 2921-88-2 | 30-60 |
| Naphtha (petroleum), heavy aromatic | 64742-94-5 | 30-60 |

| | | |
|---|---|---|
| Naphthalene | 91-20-3 | 1-5 |
| Castor oil, ethoxylated | 61791-12-6 | 1-5 |
| Calcium dodecylbenzene sulfonate | 26264-06-2 | 1-5 |

Synonyms are provided in Section 1.

## 4. FIRST AID MEASURES

**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**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

**Inhalation**

Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**Ingestion**

Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

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

Chlorpyrifos is a cholinesterase inhibitor affecting the central and peripheral nervous systems producing respiratory depression. Symptoms of poisoning may include headache, nausea, vomiting, blurred vision, tightness in chest, drooling, frothing of mouth and nose, convulsions, coma and death.

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

**Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically. If any sign of cholinesterase inhibition occurs, call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to an organophosphorus insecticide. Describe his/her condition and the extent of exposure. Immediately remove the exposed person from the area where the product is present.

ANTIDOTE: If symptoms are present, administer atropine sulphate, which often is a lifesaving antidote, in large doses, TWO to FOUR mg intravenously or intramuscularly as soon as possible. Repeat at 5 to 10 minute intervals until signs of atropinisation appear and maintain full atropinisation until all organophosphate is metabolized.

Relapse can occur after intial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS DEPENDING ON THE SEVERITY OF THE POISONING.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Dry chemical, carbon dioxide, water spray or regular foam. Avoid heavy hose streams.

**Specific Hazards Arising from the Chemical**

Combustible liquid. This material may burn when exposed to extreme heat, flame and other ignition sources. Material may decompose rapidly when exposed to heat and flame. Heat and decomposition may cause closed containers to build up pressure and explode.

**Hazardous Combustion Products**

Hydrogen chloride, ethyl mercaptan, diethyl sulphide, Carbon oxides (COx), Nitrogen

oxides (NOx), Sulfur oxides, various chlorinated and fluorinated organic compounds.

**Explosion data**

**Sensitivity to Mechanical Impact** Not sensitive.

**Sensitivity to Static Discharge** Not expected to be sensitive to static discharge.

**Protective equipment and precautions for firefighters** As in any fire, wear self-contained breathing apparatus and full protective gear. Move containers from fire area if you can do it without risk. Dike to prevent runoff. Use water spray to cool fire exposed surfaces and protect personnel. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Isolate and post spill area. Ensure clean-up is conducted by trained personnel only. Use personal protective equipment. For personal protection see section 8.

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

**Environmental Precautions** Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.

**Methods for Containment** Dike to prevent runoff. Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled material with inert, non-combustible absorbent material, such as sand. Sweep up and shovel into suitable containers for disposal. For a water spill, confine the spill immediately with booms. Large spills that soak into the ground should be dug up, placed into suitable containers and disposed of appropriately (see Section 13). Notify the appropriate authorities as required.

**Methods for cleaning up** Clean and neutralize spill area, tools and equipment by washing with water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

## 7. HANDLING AND STORAGE

**Handling** Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. Do not heat above 55°C. Keep container tightly closed. Wash thoroughly after handling. Do not breathe vapors or spray mist.

**Storage** Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Product should be stored below 68-77°F. Containers should be visually inspected on a regular basis to detect any abnormalities (swollen drums, increases in temperature, etc.). Keep out of the reach of children. Keep/store only in original container.

**Incompatible products** Strong alkalis, Amines, Strong oxidizing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH | Mexico |
|---|---|---|---|---|
| Chlorpyrifos (2921-88-2) | TWA: 0.1 mg/m³ | - | TWA: 0.2 mg/m³<br>STEL: 0.6 mg/m³ | Mexico: TWA 0.2 mg/m³<br>Mexico: STEL 0.6 mg/m³ |
| Naphthalene (91-20-3) | TWA: 10 ppm | TWA: 10 ppm<br>TWA: 50 mg/m³ | IDLH: 250 ppm<br>TWA: 10 ppm<br>TWA: 50 mg/m³<br>STEL: 15 ppm<br>STEL: 75 mg/m³ | Mexico: TWA 10 ppm<br>Mexico: TWA 50 mg/m³<br>Mexico: STEL 15 ppm<br>Mexico: STEL 75 mg/m³ |

| Chemical name | British Columbia | Quebec | Ontario TWAEV | Alberta |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Chlorpyrifos (2921-88-2) | TWA: 0.1 mg/m³ Skin | TWA: 0.2 mg/m³ Skin | TWA: 0.1 mg/m³ inhalable fraction and vapor Skin | TWA: 0.1 mg/m³ Skin |
| Naphthalene (91-20-3) | TWA: 10 ppm Skin | TWA: 10 ppm TWA: 52 mg/m³ STEL: 15 ppm STEL: 79 mg/m³ | TWA: 10 ppm Skin | TWA: 10 ppm TWA: 52 mg/m³ STEL: 15 ppm STEL: 79 mg/m³ Skin |

**Appropriate engineering controls**

**Engineering measures** Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** For dust, splash, mist or spray exposure, wear chemical protective goggles. The work area and storage formulation area must have emergency eyewash and showers.

**Skin and Body Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**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.

**Respiratory Protection** Respiratory protection is required. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures** Avoid breathing vapors, mist or gas. Prevent contact with skin eyes and clothing. Wash hands and face before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location. Clean water should be available for washing in case of eye or skin contamination. Persons working with this product for a longer period should have frequent blood tests for cholinesterase levels. If the cholinesterase levels fall below a critical point, no further exposure should be allowed until it has been determined, by means of blood tests, that cholinesterase levels have returned to normal.

**General information** If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance** | Liquid suspension |
| **Physical State** | Liquid |
| **Color** | Yellow to brown |
| **Odor** | Aromatic |
| **Odor threshold** | No information available |
| **pH** | 5.9 @ 25°C (1 % aqueous solution) |
| **Melting point/freezing point** | 0 °C |
| **Boiling Point/Range** | Decomposes at temperatures above 160°C. |
| **Flash point** | 66 °C / 151 °F : (PMCC) |
| **Evaporation Rate** | No information available |
| **Flammability (solid, gas)** | No information available |
| **Flammability Limit in Air** | |

| | |
|---|---|
| **Upper flammability limit:** | 7% |
| **Lower flammability limit:** | 0.6% |
| **Vapor pressure** | No information available |
| **Vapor density** | No information available |
| **Relative density** | No information available |
| **Specific gravity** | 1.084 g/mL @ 20C |
| **Water solubility** | Miscible with water |
| **Solubility in other solvents** | No information available |
| **Partition coefficient** | No information available |
| **Autoignition temperature** | No information available |
| **Decomposition temperature** | No information available |
| **Viscosity, kinematic** | No information available |
| **Viscosity, dynamic** | 3.6 cps @25°C |
| **Explosive properties** | No information available |
| **Oxidizing properties** | No information available |
| **Molecular weight** | No information available |
| **Bulk density** | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity** Stable under recommended storage conditions

**Chemical Stability** Stable under normal conditions. Temperatures above 55°C will result in vigorous decomposition. The product may decompose rapidly when heated, which can result in explosion.

**Possibility of Hazardous Reactions** None under normal processing.

**Hazardous polymerization** Above 160°C, chlorpyrifos will decompose rapidly, significantly increasing the riskof inducing explosions. The decomposition is to a considerable extent dependant on time as well as temperature due to exothermic and autocatalytic reactions. The reactions involve rearrangements and polymerization releasing volatile, malodorous and inflammable compounds such as diethyl sulfide.

**Conditions to avoid** Heat, flames and sparks Extremes of temperature and direct sunlight

**Incompatible materials** Strong alkalis, Amines, Strong oxidizing agents.

**Hazardous Decomposition Products** None known.

## 11. TOXICOLOGICAL INFORMATION

**Product Information**

| | |
|---|---|
| **LD50 Oral** | 205 mg/kg (rat) |
| **LD50 Dermal** | > 4000 mg/kg (rat) |
| **LC50 Inhalation** | 2.16 mg/L (4-hr) (rat) |

**Serious eye damage/eye irritation** Contact with eyes may cause irritation.

**Skin corrosion/irritation** May cause skin irritation and/or dermatitis.

**Sensitization** Not expected to be sensitizing based on the components.

| Chemical name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Chlorpyrifos (2921-88-2) | = 135 mg/kg ( Rat ) = 82 mg/kg ( Rat ) | = 2 g/kg ( Rabbit ) = 202 mg/kg ( Rat ) > 5000 mg/kg ( Rabbit ) | > 200 mg/m³ ( Rat ) 4 h |
| Naphtha (petroleum), heavy aromatic (64742-94-5) | > 5,000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | >5.28 mg/L ( Rat ) 4 h |
| Naphthalene (91-20-3) | = 1110 mg/kg ( Rat ) = 490 mg/kg ( Rat ) | = 1120 mg/kg ( Rabbit ) > 20 g/kg ( Rabbit ) | > 340 mg/m³ ( Rat ) 1 h |
| Calcium dodecylbenzene sulfonate (26264-06-2 ) | 1300 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | 0.31 mg/L ( Rat ) 4 h |

**Information on toxicological effects**

**Symptoms** Chlorpyrifos is a cholinesterase inhibitor affecting the central and peripheral nervous systems producing respiratory depression. On contact, the first symptoms to appear may be irritation. Symptoms of cholinesterase inhibition: nausea, headache, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, laboured breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Mutagenicity** Not expected to be mutagenic in humans
**Carcinogenicity** Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH)
**Reproductive toxicity** Not expected to have reproductive effects.
**Teratogenicity** Not expected to be a teratogen.
**STOT - single exposure** May cause damage to organs. See listed target organs below.
**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure. See listed target organs below.
**Target organ effects** Eyes, Skin, Respiratory System, Digestive system, Nervous system.
**Aspiration hazard** This product presents an aspiration pneumonia hazard.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Chlorpyrifos<br>2921-88-2 | | Group 2A | | |
| Naphthalene<br>91-20-3 | A3 | Group 2B | Reasonably Anticipated | X |

**Legend:**
*ACGIH (American Conference of Governmental Industrial Hygienists)*
*A3 - Animal Carcinogen*
*IARC (International Agency for Research on Cancer)*
*Group 2A - Probably Carcinogenic to Humans*
*Group 2B - Possibly Carcinogenic to Humans*
*NTP (National Toxicology Program)*
*Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen*
*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*
*X - Present*

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

| **Chlorpyrifos (2921-88-2)** | | | | |
|---|---|---|---|---|
| Active Ingredient(s) | Duration | Species | Value | Units |
| Chlorpyrifos | LD50 acute oral | Honey bees | 0.36 | µg/bee |
| | LD50 topical | Honey bees | 0.070 | µg/bee |

**Persistence and degradability** Chlorpyrifos: Does not readily hydrolyze.

**Bioaccumulation** Chlorpyrifos. The substance has a potential for bioconcentration.

**Mobility** Chlorpyrifos: Immobile, Not expected to reach groundwater.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods** Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

**Contaminated Packaging** Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

## 14. TRANSPORT INFORMATION

**DOT** Classification pertains to the shipment of Bulk or Non-Bulk packages (except where indicated).

| | |
|---|---|
| **UN/ID no** | UN3018 |
| **Proper Shipping Name** | Organophosphorus pesticide, liquid, toxic |
| **Hazard class** | 6.1 |
| **Packing Group** | III |
| **Marine Pollutant** | Chlorpyrifos. |
| **Description** | UN3018, Organophosphorus pesticides, liquid, toxic, (Chlorpyrifos), 6.1, III, RQ |

**TDG** Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.

| | |
|---|---|
| **UN/ID no** | UN3018 |
| **Proper Shipping Name** | Organophosphorus pesticide, liquid, toxic |
| **Hazard class** | 6.1 |
| **Packing Group** | III |
| **Marine Pollutant** | Chlorpyrifos. |
| **Description** | UN3018, Organophosphorus pesticides, liquid, toxic, (Chlorpyrifos), 6.1, III, RQ |

**ICAO/IATA**

| | |
|---|---|
| **UN/ID no** | UN3018 |
| **Proper Shipping Name** | Organophosphorus pesticide, liquid, toxic |
| **Hazard class** | 6.1 |
| **Packing Group** | III |
| **Description** | UN3018, Organophosphorus pesticides, liquid, toxic, (Chlorpyrifos), 6.1, III, RQ |

**IMDG/IMO**

| | |
|---|---|
| **UN/ID no** | UN3018 |
| **Proper Shipping Name** | Organophosphorus pesticide, liquid, toxic |
| **Hazard class** | 6.1 |
| **Packing Group** | III |
| **Marine Pollutant** | Chlorpyrifos |
| **Description** | UN3018, Organophosphorus pesticides, liquid, toxic, (Chlorpyrifos), 6.1, III, RQ |

## 15. REGULATORY INFORMATION

## U.S. Federal Regulations

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|---|---|---|---|
| Naphthalene - 91-20-3 | 91-20-3 | 1-5 | 0.1 |

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute health hazard** | Yes |
| **Chronic health hazard** | Yes |
| **Fire hazard** | Yes |
| **Sudden release of pressure hazard** | No |
| **Reactive Hazard** | No |

**Clean Water Act**
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical name | CWA - Reportable | CWA - Toxic Pollutants | CWA - Priority | CWA - Hazardous |
|---|---|---|---|---|

| | Quantities | | Pollutants | Substances |
|---|---|---|---|---|
| Chlorpyrifos<br>2921-88-2 | 1 lb | | | X |
| Naphthalene<br>91-20-3 | 100 lb | X | X | X |

**CERCLA**
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---|---|---|
| Chlorpyrifos<br>2921-88-2 | 1 lb<br>0.454 kg | |
| Naphthalene<br>91-20-3 | 100 lb<br>45.4 kg | |

*FIFRA Information*

*This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:*

*Warning*
*May be fatal if swallowed.*
*Causes substantial but temporary eye injury or skin irritation. Harmful if absorbed through skin.*
*Do not get in eyes, on skin or on clothing.*

## US State Regulations

**California Proposition 65**
This product contains the following Proposition 65 chemicals.

| Chemical name | California Prop. 65 |
|---|---|
| Chlorpyrifos - 2921-88-2 | Developmental |
| Naphthalene - 91-20-3 | Carcinogen |

**U.S. State Right-to-Know Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Chlorpyrifos<br>2921-88-2 | X | X | X |
| Naphthalene<br>91-20-3 | X | X | X |

**International Inventories**

| Chemical name | TSCA (United States) | DSL (Canada) | EINECS/ELINCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|---|---|---|---|---|---|---|---|---|
| Chlorpyrifos<br>2921-88-2 | | X | X | X | X | X | X | X |
| Naphtha (petroleum), heavy aromatic<br>64742-94-5 | X | X | X | | X | X | X | X |
| Naphthalene<br>91-20-3 | X | X | X | X | X | X | X | X |
| Castor oil, ethoxylated<br>61791-12-6 | X | X | X | X | X | X | X | X |

| Chemical name | Carcinogen Status | Mexico |
|---|---|---|
| Chlorpyrifos | | Mexico: TWA 0.2 mg/m³<br>Mexico: STEL 0.6 mg/m³ |
| Naphthalene | | Mexico: TWA 10 ppm<br>Mexico: TWA 50 mg/m³<br>Mexico: STEL 15 ppm<br>Mexico: STEL 75 mg/m³ |

| Chemical name | Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use -Threshold Quantities | Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities |
|---|---|---|
| Chlorpyrifos | 100<br>2500 kg/yr | 100 kg/yr |

**CANADA**

**WHMIS Statement**
This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

**WHMIS Hazard Class** D2A - Very toxic materials

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** 2 | **Flammability** 2 | **Instability** 1 | **Special Hazards** - |
| **HMIS** | **Health Hazards** 2* | **Flammability** 2 | **Physical hazard** 0 | **Personal Protection** X |

**Indicates a chronic health hazard.*

**NFPA/HMIS Ratings Legend** Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

**Revision date:** 2018-12-18
**Reason for revision:** SDS sections updated

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**End of Safety Data Sheet**