

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	<p>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.</p> <p>Skin contact: There may be irritation and redness at the site of contact.</p> <p>Eye contact: There may be irritation and redness. The eyes may water profusely.</p> <p>Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.</p> <p>Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.</p> <p>Delayed/immediate effects: Immediate effects can be expected after short-term exposure.</p>
Indication of immediate medical attention and special treatment needed, if necessary	<p>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.</p> <p>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.</p> <p>Relapse can occur after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS DEPENDING ON THE SEVERITY OF THE POISONING.</p>

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
Sensitivity to Static Discharge

Not sensitive.
 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/m ³	-	TWA: 0.2 mg/m ³ STEL: 0.6 mg/m ³	Mexico: TWA 0.2 mg/m ³ Mexico: STEL 0.6 mg/m ³
Naphthalene (91-20-3)	TWA: 10 ppm	TWA: 10 ppm TWA: 50 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³	Mexico: TWA 10 ppm Mexico: TWA 50 mg/m ³ Mexico: STEL 15 ppm Mexico: STEL 75 mg/m ³
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta

Chlorpyrifos (2921-88-2)	TWA: 0.1 mg/m ³ Skin	TWA: 0.2 mg/m ³ Skin	TWA: 0.1 mg/m ³ inhalable fraction and vapor Skin	TWA: 0.1 mg/m ³ Skin
Naphthalene (91-20-3)	TWA: 10 ppm Skin	TWA: 10 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³	TWA: 10 ppm Skin	TWA: 10 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³ 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	No information available

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 risk of 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/m ³ (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/m ³ (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 2921-88-2		Group 2A		
Naphthalene 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
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	Quantities		Pollutants	Substances
Chlorpyrifos 2921-88-2	1 lb			X
Naphthalene 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 2921-88-2	1 lb 0.454 kg	
Naphthalene 91-20-3	100 lb 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 2921-88-2	X	X	X
Naphthalene 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 2921-88-2		X	X	X	X	X	X	X
Naphtha (petroleum), heavy aromatic 64742-94-5	X	X	X		X	X	X	X
Naphthalene 91-20-3	X	X	X	X	X	X	X	X
Castor oil, ethoxylated 61791-12-6	X	X	X	X	X	X	X	X

Chemical name	Carcinogen Status	Mexico
Chlorpyrifos		Mexico: TWA 0.2 mg/m ³ Mexico: STEL 0.6 mg/m ³
Naphthalene		Mexico: TWA 10 ppm Mexico: TWA 50 mg/m ³ Mexico: STEL 15 ppm Mexico: STEL 75 mg/m ³

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 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

Disclaimer

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End of Safety Data Sheet