

Safety Data Sheet Predator™ 6000

1. Product and company identification

Product name	: Predator™ 6000
Synonym	: Morpholine, 4-(2-nitrobutyl)-; N-(2-Nitrobutyl)morpholine
CAS number	: 2224-44-4
Material uses	: Petrochemical industry: Biocide. Fuel additive.
Internal code	: 10262
System code	: 10262
Date of issue/Date of revision	: 2022-03-07
Date of previous issue	: 2020-04-06
Version	: 1.14
Supplier	: Innospec Fuel Specialties LLC 8310 South Valley Highway Suite 350 Englewood CO, 80112 USA
Information contact	: 1-800-441-9547
e-mail address of person responsible for this SDS	: sdsinfo@innospecinc.com
NON-emergency enquiries	: corporatecommunications@innospecinc.com

Emergency telephone number

In USA, Canada and North America, 24 hour / 7 day emergency information for our product is provided by the CHEMTREC® Emergency Call Center based in the USA

Country information

USA, Canada, Puerto Rico, Virgin Islands	
In case of difficulties, or for ships at sea	

: Emergency telephone number

: Emergency telephone number Location

- : +1 800 424 9300
- : +1 703 527 3887

+1 215 207 0061

+55 11 3197 5891

+52 555 004 8763

+44 (0) 1235 239 670

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In Europe, Middle East, Africa, Asia Pacific and South America 24 hour / 7 day emergency response for our products is provided by the NCEC CARECHEM 24 global network

CARECHEM24

Brazil

Mexico

London, UK

Philadelphia USA

The main regional centres are listed here in Section 1.

Other local contact numbers for specific language support in Asia Pacific are listed in Section 16

Country information South America (all countries)

Mexico

Europe (all countries) Middle East, Africa (French, Portuguese, English)	

Product and company identification 1.

Middle East, Africa (Arabic, French, English , Portuguese, Farsi)

+44 (0) 1235 239 671

London, UK

Asia Pacific (all countries excep China	ot China)	+65 3158 1074 400 120 6011	Singapore Beijing China
Section 2. Hazar	rds identificat	ion	
OSHA/HCS status	: This material is (29 CFR 1910.1	considered hazardous by the OSHA Ha 200).	azard Communication Standard
Classification of the substance or mixture	ACUTE TOXIC	IQUIDS - Category 4 ITY (oral) - Category 4 ITY (dermal) - Category 3	
GHS label elements			
Hazard pictograms	-		
Signal word	: Danger		
Hazard statements	: <mark>F</mark> 227 - Combus H302 - Harmful H311 - Toxic in		
Precautionary statement	<u>ts</u>		
Prevention	EVAL< 1 hour (protective clothi suit. Wear eye o P210 - Keep aw P270 - Do not e	otective gloves: > 8 hours (breakthroug breakthrough time): butyl rubber , neop ng: Recommended: safety apronPossik or face protection: Recommended: spla vay from flames and hot surfaces. No sr eat, drink or smoke when using this proc oroughly after handling.	rene rubber , nitrile rubber. Wear ble: chemical-resistant protective sh goggles, face shield. moking.
Response	unwell. Rinse n P361 + P364 -	Take off immediately all contaminated c 352 - IF ON SKIN: Call a POISON CEN	lothing and wash it before reuse.
Storage	: ₱405 - Store loo ₽403 + ₽235 - \$	cked up. Store in a well-ventilated place. Keep cc	pol.
Disposal	: P501 - Dispose and internationa	of contents and container in accordanc al regulations.	e with all local, regional, national
Hazards not otherwise classified	: None known.		
Target organs		ial which may cause damage to the follo anes, upper respiratory tract, skin, cent	

See toxicological information (Section 11)

Section 3. Composition/information on ingredients

Substance/mixture

- : Substance
- **Chemical name**

identification

- : 4-(2-nitrobutyl)morpholine
- Other means of
- : Morpholine, 4-(2-nitrobutyl)-; N-(2-Nitrobutyl)morpholine

Ingredient name	%	CAS number
4-(2-nitrobutyl)morpholine	81.0	2224-44-4
N,N'-methylenebismorpholine	5.7	5625-90-1
4,4'-(2-ethyl-2-nitropropane-1,3-diyl)bismorpholine	5.0	1854-23-5
morpholine	5.0	110-91-8
1-nitropropane	3.3	108-03-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation. **Additional information**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Remove dentures if any. Wash out mouth with water. Stop if the exposed person feels sick as vomiting may be dangerous. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important sympto	ms/effects, acute and delayed

Potential acute health effects

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Section 4. First aid measures

: No known significant effects or critical hazards.		
: No known significant effects or critical hazards.		
: Toxic in contact with skin.		
: Harmful if swallowed.		
<u>otoms</u>		
: No specific data.		
dical attention and special treatment needed, if necessary		
 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 		
: No specific treatment.		
: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.		

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	: In a fire or if heated, a pressure increase will occur and the container may burst.
Flash point	: Closed cup: 71°C (159.8°F) [Pensky-Martens. ASTM D93]

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for co	ntainment and cleaning up	
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.	
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.	

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 10 to 35°C (50 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Eliminate all ignition sources. Separate from oxidizing materials.
	Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in
	unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
morpholine	 ACGIH TLV (United States, 3/2020). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 71 mg/m³ 8 hours. OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 30 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. NIOSH REL (United States, 10/2016). Absorbed through skin. TWA: 20 ppm 10 hours. TWA: 70 mg/m³ 10 hours. STEL: 30 ppm 15 minutes. STEL: 30 ppm 15 minutes. STEL: 30 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. TWA: 70 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
1-nitropropane	ACGIH TLV (United States, 3/2020). TWA: 25 ppm 8 hours. TWA: 91 mg/m ³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 25 ppm 8 hours. TWA: 90 mg/m ³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 25 ppm 10 hours. TWA: 90 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 25 ppm 8 hours. TWA: 90 mg/m ³ 8 hours.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Section 8. Exposure controls/personal protection

Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	ies
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: splash goggles, face shield
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): polyvinyl chloride (PVC), EVAL < 1 hour (breakthrough time): butyl rubber , neoprene rubber , nitrile rubber
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: safety apron Possible: chemical-resistant protective suit
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Possible: organic vapor (Type A) and particulate filter
Personal protective equipment (Pictograms)	

Section 9. Physical and chemical properties

Liquid.
Yellow or brown.
Amine-like.
Not available.
9.5 to 10 [Conc. (% w/w): 1%]

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Section 9. Physical and chemical properties

Melting point/freezing point	1	10.5°C (50.9°F)
Boiling point	1	174.9°C (346.8°F)
Flash point	1	Closed cup: 71°C (159.8°F) [Pensky-Martens. ASTM D93]
Evaporation rate	:	Highest known value: 0.78 (1-nitropropane) Weighted average: 0.71compared with butyl acetate
Flammability (solid, gas)	4	In a fire or if heated, a pressure increase will occur and the container may burst.
Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 1.4% Upper: 11.2% (morpholine)
Vapor pressure	1	0.1 kPa (0.8 mm Hg) (at 20°C)
Vapor density	1	Highest known value: 3.06 (Air = 1) (1-nitropropane). Weighted average: 3.02 (Air = 1)
Specific gravity		1.1 [ASTM D891]
Density	4	9.16 lbs/gal
Solubility	4	Partially soluble in the following materials: cold water, hot water.
Solubility in water	4	31 g/l
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	1	260°C (500°F)
Decomposition temperature	1	Not available.
Viscosity	:	Dynamic (room temperature): 18.2 mPa·s (18.2 cP) Kinematic (room temperature): 0.1655 cm²/s (16.55 cSt) Kinematic (40°C (104°F)): 0.07 cm²/s (7 cSt)
Explosive properties	:	Not applicable.
Refractive Index	:	1.464

Section 10. Stability and reactivity

: The product is stable.
: Under normal conditions of storage and use, hazardous reactions will not occur.
: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
 Reactive or incompatible with the following materials: oxidizing materials Highly reactive or incompatible with the following materials: oxidizing materials and acids.
: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Section 11. Toxicological information

: No specific data.

Product/ingredient name	Test	Species	Result	Dose
1-nitropropane 4-(2-nitrobutyl)morpholine	-		LD50 Oral LC50 Inhalation Vapor	455 mg/kg >2.33 ppm
	-		LD50 Dermal LD50 Oral	420 mg/kg 620 mg/kg

Potential chronic health effects

Not available.

Irritation/Corrosion

Product/ingredient name	Test	Species	Result
morpholine	-	Rabbit	Eyes - Severe irritant Skin - Moderate
			irritant

Conclusion/Summary

Eyes

: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

Respiratory

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
morpholine	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

Section 12. Ecological information

<u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
morpholine	Acute EC50 28000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
4-(2-nitrobutyl)morpholine	EC50 0.35 mg/l Acute EC50 1.9 mg/l Acute LC50 1.1 mg/l Acute NOEC 1.77 mg/l	Algae Daphnia Fish - Oncorhynchus mykiss Daphnia	72 hours 48 hours 96 hours 48 hours

Persistence and degradability

Product/ingredient name	Test			Result	
4-(2-nitrobutyl)morpholine	OECD 301B Ready Biodegradability - CO2 Evolution Test			11.9 to 27.2 % - Not readily - 28 days	
Product/ingredient name	Aquatic half-life	Photolysis		Biodegradability	
4-(2-nitrobutyl)morpholine morpholine 1-nitropropane				Not readily Readily Inherent	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4-(2-nitrobutyl)morpholine	-	<100	low
4-(2-nitrobutyl)morpholine	1.12	<100	low
4,4'-(2-ethyl-2-nitropropane-	1.98	3	low
1,3-diyl)bismorpholine			
morpholine	-0.86	<2.8	low
1-nitropropane	0.87	1.3	low

Mobility in soil

Soil/water partition

coefficient (Koc)

Section 13. Disposal considerations

: 50

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN3142	UN3142	UN3142
UN proper shipping name	Disinfectants, liquid, toxic, n.o.s. (4-(2-nitrobutyl)morpholine). Marine pollutant	DISINFECTANT, LIQUID, TOXIC, N.O.S. (4-(2-nitrobutyl) morpholine). Marine pollutant (4-(2-nitrobutyl)morpholine)	Disinfectant, liquid, toxic, n.o.s. (4-(2-nitrobutyl)morpholine)
Transport hazard class(es)	6.1	6.1	6.1
Packing group	Ш	Ш	111
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. Limited quantity Yes. Packaging instruction Exceptions: 153. Non-bulk: 203. Bulk: 241. Quantity limitation Passenger aircraft/rail: 60 L. Cargo aircraft: 220 L. Special provisions IB3, T7, TP1, TP28	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-A, S- A <u>Special provisions</u> 223, 274	

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information U.S. Federal regulations : TSCA 4(a) final test rules: 1-nitropropane TSCA 12(b) one-time export: 1-nitropropane United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304

Composition/information on ingredients

Date of issue/Date of revision : 2022-03-07

Section 15. Regulatory information

No products were found

No products were found.	
<u>SARA 311/312</u>	
Classification	AMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3
State regulations	
Massachusetts	The following components are listed: MORPHOLINE; 1-NITROPROPANE
New York	None of the components are listed.
New Jersey	The following components are listed: MORPHOLINE; 1-NITROPROPANE; PROPANE, 1-NITRO-
Pennsylvania	The following components are listed: MORPHOLINE; PROPANE, 1-NITRO-
California Prop. 65	This product does not require a Safe Harbor warning under California Prop. 65.
International lists National inventory	
Canada inventory (AICS)	All components are listed or exempted. All components are listed or exempted.
•	
China inventory (IECSC) EU REACH Status	All components are listed or exempted.
	Please contact your supplier for information on the inventory status of this material.
Japan inventory	All components are listed or exempted.
Korea REACH Status	Please contact your supplier for information on the inventory status of this material.
New Zealand Inventory of Chemicals (NZIoC)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.
Taiwan REACH Status	Please contact your supplier for information on the inventory status of this material.
Turkey REACH Status	Please contact your supplier for information on the inventory status of this material.
UK REACH Status	Please contact your supplier for information on the inventory status of this material.
United States inventory	All components are listed or exempted.

(TSCA 8b)

Our REACH registrations DO NOT cover the following:

1. The manufacture of these products by our company outside the EU unless covered by the Only Representative provisions, and

2. The importation of these products into Europe by other companies. Re-importation by other companies is not covered by our registrations Customers and other third parties importing and/or re-importing our products into Europe will need either:

- Their own registration for substances contained in the imported product, or constituent monomers (imported above 1 tonne per year and >2% by weight) in the case of imported polymers, or

- In the case of importation only, to make use of the "Only Representative" provisions, if available.

Not to be used for hydraulic fracking applications

FIFRA

EPA Registration Number:	:	464-659-68827 This chemical is a pesticide product registered by the Environmental Protection	
		Agency and is subject to certain labeling requirements under federal p These requirements differ from the classification criteria and hazard in required for safety data sheets, and for workplace labels of non-pestic Listed below is the hazard information as required on the pesticide lab	esticide law. formation ide chemicals.
Date of issue/Date of revision		: 2022-03-07	12/

7

Section 15. Regulatory information

Signal word

2

Hazard statements

DANGER

5 Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. This pesticide is toxic to fish and aquatic organisms.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of printing: 2022-03-07Date of issue/Date of revision: 2022-03-07Date of previous issue: 2020-04-06Version: 1.14Key to abbreviations: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations	<u>History</u>		
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Indicates information that has changed from previously issued version.

Notice to reader

Date of issue/Date of revision	: 2022-03-07	13/14
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Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.