

SAFETY DATA SHEET

Nimitz

Revision Date 08-May-2020 Publish Date 08-May-2020 Version 3

Product No INS00046-27 R-26530 9502528 ADM.02250.I.5.A

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

Product identifier

Nimitz

Synonyms Fluensulfone 480 EC

Pure substance/mixture Mixture

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Nematicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address ADAMA SOUTH AFRICA (PTY) LTD

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Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Aspiration toxicity
Acute toxicity - Oral
Skin corrosion/irritation
Serious eye damage/eye irritation
Skin sensitization
Skin sensitization
Category 2 - (H319)
Category 1 - (H317)
Category 1 - (H400)
Chronic aquatic toxicity
Category 1 - (H410)

Label Elements

Hazard pictograms



Signal word Danger

Hazard Statements H303 - May be harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H316 - Causes mild skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P331 - Do NOT induce vomiting

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

Other Hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Fluensulfone	38-42	318290-98-1		Skin Sens. 1 (H317) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=10 M=1
2-Ethylhexan-1-ol	1-3	104-76-7	203-234-3	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	
Benzenesulfonic acid, C10-13-(linear)alkyl derivs., calcium salt	2-4	N/A	932-231-6	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	
Propylene carbonate	10-14	108-32-7	203-572-1	Eye Irrit. 2 (H319)	
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	33-38	N/A	922-153-0	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)	

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

First aid measures

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General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician

immediately.

Ingestion Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a

physician.

Self-protection of the first aiderUse personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Combustible material.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.



Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
2-Ethylhexan-1-ol					TWA: 10 ppm
104-76-7					TWA: 54 mg/m ³
					Ceiling / Peak: 10 ppm
					Ceiling / Peak: 54
					mg/m³
					TWA: 20 ppm
					TWA: 110 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
2-Ethylhexan-1-ol	Skin	STEL: 20 ppm	STEL: 320 mg/m ³		
104-76-7	STEL 100 ppm	STEL: 110 mg/m ³	TWA: 160 mg/m ³		
	STEL 540 mg/m ³	TWA: 20 ppm			
	TWA: 50 ppm	TWA: 110 mg/m ³			1
	TWA: 270 mg/m ³				

Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.



Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact **Hand Protection**

(recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5

mm), butyl rubber (0.7 mm).

Use suitable protective clothing and equipment if required, such as safety goggles certified **Body Protection**

to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water

repellent woven coverall with 65% polyester and 35 % cotton.

Use only with adequate ventilation. Respiratory protection

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular

cleaning of equipment, work area and clothing is recommended.

Do not allow into any sewer, on the ground or into any body of water. **Environmental exposure controls**

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Property	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance Physical state	: liquid		
Color	: Yellowish to brown		
Odor	: characteristic, oily		
Odor threshold	: No data available	CIPAC MT 75.3	4.0/
pH Melting point/freezing point °C	: 4.5 – 6.5	CIFAC WIT 75.5	1 % aqueous solution Not Applicable
Boiling point/boiling range °C	: No data available		Not Applicable
Flash point °C	: 101.5	EEC A.9	
Evaporation rate	:		No data available
Flammability (solid, gas)	: Not applicable for liquids		
Upper/lower flammability or	: No data available		
explosive limits			
Vapor pressure kPa	:		Not Applicable
Vapor density	: No data available : 1.15 - 1.25	OECD 109	20 °C
Relative density Solubility(ies) mg/l	: 1.15 - 1.25	0200 103	Not Applicable
Partition Coefficient	•		See Section 12 for more
(n-octanol/water) Log Pow	•		information
Autoignition temperature °C	: > 400	EEC A.15	
Decomposition temperature °C	: No data available		
Kinematic viscosity mm2/s 40 °C	: 8.24	OECD 114	
Explosive properties	: Not an explosive	EEC A.14	
Oxidizing properties	: Not oxidizing	EEC A.21	
Other Information			
Bulk density g/ml	:		Not Applicable
Surface tension mN/m	: 49.3	OECD 115	19.5°C

Section 10: STABILITY AND REACTIVITY

Reactivity

Not available.

Chemical stability

Stable under normal conditions.



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Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible Materials

No information available

Hazardous Decomposition Products

Nitrogen oxides (NOx).

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity

	<u>Values</u>	Species_	<u>Method</u>	Remarks
Oral LD50 mg/kg	: > 2000	Rat	OECD 423	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	: > 6.0	Rat	OECD 403	
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Irritating to eyes	Rabbit	OECD 405	
Respiratory/skin sensitization	: Skin sensitizer	Guinea pig	OECD 406,	

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Fluensulfone : Not classified

Carcinogenicity

Chemical Name

Fluensulfone : Not Carcinogenic

Reproductive toxicity .

Chemical Name

Fluensulfone : Not toxic for the reproductive system

STOT - single exposure

Chemical Name

Fluensulfone : No data available

STOT - repeated exposure

Chemical Name

Fluensulfone : Not classified

Aspiration hazard Chemical Name

Fluensulfone : No data available

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity



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Acute toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish 96-hour LC50 mg/l : 5.6 Lepomis macrochirus OECD 203
Crustacea 48-hour EC50 mg/l : 0.83 Daphnia magna OECD 202
Algae 72-hour EC50 mg/l : 0.0152 P. subcapitata OECD 201

Other plants EC50 mg/l : ---- No data available

Chronic aquatic toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available
Algae NOEC mg/l : No data available
Other plants NOEC mg/l : No data available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Chemical Name

Fluensulfone : 1506 Bobwhite quail EPA-OPPTS

850.2100

Bees Oral LD50 µg/bee

Chemical Name

Fluensulfone : > 197 OECD 213; OECD

214

Persistence and degradability

Abiotic Degradation <u>Values</u> <u>Method</u> <u>Remarks</u>

Water DT50 days Chemical Name

Fluensulfone : ---- OECD 111 Stable, 50 °C

Soil DT50 days Chemical Name

Fluensulfone : 8 - 17 EPA OPPTS 835.4100 20 °C

Biodegradation Chemical Name

Fluensulfone : Not readily biodegradable OECD 301 D

Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Partition Coefficient (n-octanol/water) Log

Pow

Chemical Name

Fluensulfone : 1.96 OECD 117

Bioconcentration factor (BCF)

Chemical Name

Fluensulfone : ---- Low bioaccumulation

potential

Mobility in soil

Adsorption/Desorption <u>Values</u> <u>Method</u> <u>Remarks</u> Chemical Name

Fluensulfone : 187 OECD 106 Mobile

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluensulfone)

Hazard Class q **Packing Group** Ш Marine pollutant Yes

Special precautions for user

RID/ADR

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluensulfone)

Hazard Class Packing Group Ш **Environmental hazard** Yes

Special precautions for user

ICAO/IATA

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluensulfone)

Hazard Class Packing Group Ш **Environmental hazard** Yes

Special precautions for user

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

IBC Code

Not Applicable



^{*} Note: UN3077 & UN3082 - These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

Section 15: REGULATORY INFORMATION

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

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H303 - May be harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H316 - Causes mild skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

Revision Note

Changes made to the last version are labeled with this sign ***.

List of Acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS Number - Chemical Abstracts Service number EINECS and ELINCS Number

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet