

SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Nimitz

Revision date 11-Aug-2022 Version 4 Supersedes Date: 08-May-2020 Product Code(s) INS00046-27 Print Date 11-Aug-2022

ADM.02250.I.5.A 9502528

1. Identification

Product identifier

Nimitz

Other means of identification

EC Formulation type Registration Number(s) L10436 Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Nematicide: Professional use Recommended use No information available Uses advised against

Detailed information about the manufacturer, supplier, and/or importer

Supplier ADAMA SOUTH AFRICA (PTY) LTD

Ground Floor, Simeka House The Vineyards Office Estate 99 Jip de Jager Drive

Bellville 7530

Emergency telephone number

+27 82 446 8946 (Griffon Poison Centre) **Emergency Telephone**

+27 86 155 5777 (Tygerberg Poison Information Centre) +27 86 100 6366 and +27 83 253 6618 (SPILL TECH)

E-mail address SDS@ADAMA.COM

2. Hazard(s) identification

Classification of the substance or mixture

Aspiration hazard	Category 1 - (H304)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

Label elements

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Signal word

Danger

Hazard pictograms



Hazard statements H304 - May be fatal if swallowed and enters airways

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 + P265 - Wash face, hands and any exposed skin thoroughly after handling. Do not

touch eyes

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

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection P301 + P316 - IF SWALLOWED: Get emergency medical help immediately

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

P333 + P317 - If skin irritation or rash occurs, get medical help P337 + P317 - If eye irritation persists: Get medical help

P362 + P364 - Take off contaminated clothing and wash it before reuse

P391 - Collect spillage P405 - Store locked up

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

Additional information

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

Other hazards

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

3. Composition/information on ingredients

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Fluensulfone	318290-98-	38-42	849-171-0	Skin Sens. 1 (H317)	
	1			Acute Tox. 4 (H302)	
				Aquatic Acute 1 (H400)	M=10
				Aquatic Chronic 1 (H410)	M=1

Hydrocarbons, C10-C13, aromatics, <1% naphthalene	-	33-38	922-153-0	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)	
Propylene carbonate	108-32-7	10-14	203-572-1	Eye Irrit. 2 (H319)	
Benzenesulfonic acid,	-	2-4	932-231-6	Skin Irrit. 2 (H315)	
C10-13-(linear)alkyl derivs., calcium				Eye Dam. 1 (H318)	
salt				Aquatic Chronic 3 (H412)	
2-Ethylhexan-1-ol	104-76-7	1-3	203-234-3	Acute Tox. 4 (H332)	
				Skin Irrit. 2 (H315)	
				Eye Irrit. 2 (H319)	
				STOT SE 3 (H335)	

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

Additional information

Note: The other ingredients do not cause or contribute towards the correct GHS classification of Fluensulfone 480 EC and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021. Regulation 14(b), not listed in the table above.

First-aid measures

Description of necessary first aid measures

General advice In case of accident or if you feel unwell, seek medical advice immediately (show the label

where 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.

Eve 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. Get medical

attention immediately if symptoms occur.

Rinse mouth. Do NOT induce vomiting. Get medical attention immediately if symptoms Ingestion

occur.

For emergency responders

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

Most important symptoms/effects, acute and delayed

None known. **Symptoms**

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

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the Suitable Extinguishing Media

surrounding environment.

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Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

Unsuitable extinguishing media

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

Specific/special fire-fighting measures

Specific/special fire-fighting measures

No information available.

Special protective equipment and precautions for fire-fighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Methods for containment

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage

Preventive measures for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with Advice on safe handling

skin, eves or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take

off contaminated clothing and wash before reuse.

Precautions for safe handling

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. **Storage Conditions**

Keep out of the reach of children. Store away from other materials.

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8. Exposure controls/personal protection

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure guidelines**

exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

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).

Eye/face protection Tight sealing safety goggles.

Use suitable protective clothing and equipment if required, such as safety goggles certified Skin and 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.

Handle in accordance with good industrial hygiene and safety practice. General hygiene considerations

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

9. Physical and chemical properties

Information on basic physical and chemical properties

Property	<u>Values</u>	<u>Method</u>	Remarks
Appearance			
Physical state	: Liquid		
Color	: Yellowish to brown		
Odor	: characteristic oily		
Odor threshold	: No data available		
pH	: 4.5 – 6.5	CIPAC MT 75.3	1 % aqueous solution
Melting point / freezing point °C	:		Not applicable
Boiling point / boiling range °C	: No data available		
Flash point °C	: 101.5	EEC A.9	
Evaporation rate	:		No data available
Flammability (solid, gas)	: Not applicable		
Upper/lower flammability or	: No data available		
explosive limits			
Vapor pressure kPa	:		Not applicable
Vapor density	: No data available		• •
Relative density	: 1.15 - 1.25	OECD 109	201 °C
Solubility(ies) mg/l	:		Not applicable
Partition coefficient Log Pow	:		See Section 12 for additional
G			Ecological Information
Autoignition temperature °C	: > 400	EEC A.15	S .
Decomposition temperature °C	: No data available		
		OECD 114	

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Kinematic viscosity mm2/s 40 °C: 8.24

Explosive properties: Not an explosiveEEC A.14Oxidizing properties: Not oxidizingEEC A.21

Surface tension : 49.3 OECD 115 19.5°C

Particle Size : Not applicable

Other information

Bulk density g/ml : ----

10. Stability and reactivity

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

Conditions to avoid

Conditions to avoidNone known based on information supplied.

Incompatible materials

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products Nitrogen oxides (NOx).

11. Toxicological information

Information on toxicological effects

Acute toxicity

		<u>Values</u>	<u>Species</u>	<u>Method</u>	Remarks
Oral LD50 mg/kg	:	> 2000	Rat	OECD 423	
Dermal LD50 mg/kg	:	> 2000	Rat	OECD 402	
Inhalation LC50 LC50	:	> 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	
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

12. Ecological information

Ecotoxicity

Aquatic toxicity

Acute toxicity Values Species Method Remarks

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**

No data available Other plants EC50 mg/l

Chronic aquatic toxicity Values_ Species Method Remarks

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

Abiotic Degradation Water DT50 days

Chemical name

Fluensulfone **OECD 111** Stable 501 °C

Soil DT50 days Chemical name

Fluensulfone EPA OPPTS 835.4100 201 °C : 8 - 17

Biodegradation Chemical name

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Fluensulfone : Not readily biodegradable OECD 301 D

Log Pow Values Method Remarks

Chemical name
Fluensulfone : 1.96 OECD 117

Bioconcentration factor (BCF)

Chemical name

Fluensulfone : ---- Low bioaccumulation

potential

Adsorption/Desorption Values Method Remarks

Chemical name

Fluensulfone : 187 OECD 106 Mobile

13. Disposal considerations

Disposal methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

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

14. Transport information

ADR

products

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluensulfone,

Hydrocarbons, C10-C13, aromatics, <1% naphthalene)

14.3 Transport hazard class(es) 9

Labels 9
14.4 Packing group III

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Fluensulfone, Hydrocarbons, C10-C13, aromatics, <1% naphthalene), 9, III

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 601, 375

Classification code M6

RID

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluensulfone,

Hydrocarbons, C10-C13, aromatics, <1% naphthalene)

14.3 Transport hazard class(es) 9
Labels 9

14.4 Packing group

DescriptionUN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluensulfone, Hydrocarbons, C10-C13, aromatics, <1% naphthalene), 9, III

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 375, 601

Classification code M6

<u>IMDG</u>

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluensulfone,

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Hydrocarbons, C10-C13, aromatics, <1% naphthalene) 14.3 Hazard Class

14.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Fluensulfone, Hydrocarbons, C10-C13, aromatics, <1% naphthalene), 9, III, Marine

pollutant

14.5 Marine pollutant Yes **Environmental hazard**

14.6 Special Precautions for Users

274, 335, 969 **Special Provisions** EmS-No F-A, S-F IMDG Stowage and segregation Category A

14.7. Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

IATA

14.1 UN number UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluensulfone, 14.2 UN proper shipping name

Hydrocarbons, C10-C13, aromatics, <1% naphthalene)

14.3 Transport hazard class(es)

Ш 14.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluensulfone, Hydrocarbons, C10-C13, aromatics, <1% naphthalene), 9, III

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions ERG Code

A97, A158, A197



* 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

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Registration Requirements: Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Pesticide Handling. Storage and Disposal Safety: SANS10206; 2020. Safety Data Sheet and Occupational Exposure Limit Requirements: Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. SANS11014:2010. Control of and handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in workplaces: Hazardous Substances Act, 1973 (Act No.15 of 1973). Occupational Health and Safety Act No. 85 of 1993.

16. Other information

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

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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 H412 - Harmful to aquatic life with long lasting effects

Date of preparation of the SDS No data available

Revision date 11-Aug-2022

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

Key or legend to abbreviations and acronyms used in the safety data sheet

International Maritime Dangerous Goods (IMDG) **IMDG** IATA International Air Transport Association (IATA)

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL

Ceiling Maximum limit value Skin designation

Abbreviations and acronyms

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 EC 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

Very Persistent and Very Bioaccumulative vPvB -

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Classification of the mixture Classification procedure

Classification based on Calculation method H304 - May be fatal if swallowed and enters airways

H319 - Causes serious eye irritation Classification based on test data H317 - May cause an allergic skin reaction Classification based on test data H400 - Very toxic to aquatic life Classification based on test data

H410 - Very toxic to aquatic life with long lasting effects Classification based on Calculation method

Disclaimer

The information provided in this 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