

Product Name: Nimitz

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This revision issued: September, 2022

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Nimitz
Chemical Name of Active Ing: Fluensulfone
Product Use: Nematicide

Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd Address: Level 1/93 Bolt Road Tahunanui, 7011, Nelson

Telephone: +64 3 543 8275
Email: nzorders@adama.com

Emergency Telephone: 0800 764 766 (National Poison Centre) 0800 734 607 (24hr Emergency Response)

Date of SDS Preparation: 20 October 2022

Section 2. Hazards Identification

This substance is hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020

EPA Approval No: HSR101547

Pictograms







Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement
Eye irritation Category 2	H319	Causes serious eye irritation.
Skin sensitisation Category 1A	H317	May cause an allergic skin reaction.
Target organ systemic toxicity (repeat exposure) Category 2	H372	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Category 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms	H423	Harmful to soil organisms.
Hazardous to terrestrial vertebrates	H433	Harmful to terrestrial vertebrates.

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Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P260	Do not breathe mist/spray.
P264	Wash hands or exposed skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid unintended release into the environment.
P280	Wear protective clothing and equipment as specified in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P302 + P313 +	IF ON SKIN: Wash exposed skin with plenty of soap and water. If skin
P333	irritation or rash occurs, get medical advice/attention.
P305 + P338 +	Rinse cautiously with water for several minutes. Remove contact lenses
P351	if present and easy to do. Continue rinsing. If eye irritation persists, get
	medical attention.
P308 + P313	IF otherwise exposed or concerned: Get medical advice/ attention.
P362 + P364	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Fluensulfone	47 - 49	318290-98-1
Aromatic hydrocarbons	40 - 44	64742-94-5
Non-hazardous components	Balance	N/A

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed, while holding the eyelid(s) open. Obtain medical advice if irritation occurs. Take special care if exposed person is wearing contact lenses.
If on Skin	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs, get medical advice/attention.
If Swallowed	Rinse mouth. Get medical advice if you feel unwell.

If Inhaled Remove person to fresh air. Get medical advice if breathing becomes difficult.

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Tel: 64 3 543 8275

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Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Not applicable.

Skin: May cause an allergic skin reaction.

Inhalation: Not applicable.

Eyes: Causes serious eye irritation.

Chronic: May cause damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable liquid.
Hazards from	here is little risk of an explosion from this product if commercial
combustion	quantities are involved in a fire. Violent steam generation or eruption
products	may occur upon application of direct water stream on hot liquids.
	Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances. Fire decomposition products from this product are likely to be toxic and corrosive if inhaled. Take appropriate protective measures.
Suitable	Use extinguishing measures that are appropriate to local
Extinguishing media	circumstances and the surrounding environment.
Precautions for	If a significant quantity of this product is involved in a fire, call the
firefighters and	fire brigade. There is little danger of a violent reaction or explosion if
special protective	significant quantities of this product are involved in a fire.
clothing	Recommended personal protective equipment is full fire kit and
	breathing apparatus.
HAZCHEM Code	3Z

Section 6. Accidental Release Measures

Wear full protective clothing including eye/face protection. Evacuate area from unnecessary personnel.

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.

Dispose of according to Local Regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Do not handle until all safety precautions have been read and understood.
- Do not breathe mist/spray.
- Avoid contact with skin, eyes or clothing.
- Wash hands thoroughly after handling.
- Wash contaminated clothing before re-use.
- Avoid unintended release into the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep away from children.
- Keep container tightly closed in a dry and well-ventilated place.
- Keep in properly labeled containers.
- As a substance with Aquatic Ecotoxicity Classifications, storage of this product must be carried out in such a manner as to prevent contamination of waterways. It is recommended that the New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed.

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m3 ppm mg/m3

No ingredients have exposure limits.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

No special ventilation is usually needed when occasionally handling small quantities. However make sure the work environment remains clean and that vapours and mists are minimised.

Personal Protection



Eyes	Protective glasses or goggles with shield shields must be worn when this
	product is being used.
Hands and	Suitable protective clothing, Suitable protective clothing, Apron, Gloves
Skin	made of plastic or rubber.
Respiratory	During spraying wear suitable respiratory equipment.
General	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.

Section 9	Physical and Chemical Properties

Appearance	Clear orange liquid.
Odour	Characteristic odour.
Odour Threshold	Not available.
pH	5 - 7 (1% in water)
Boiling Point	Not available.
Melting Point	Liquid at normal temperatures
Crystallization	Not applicable
temperature	
Flash Point	101°C
Flammability	Not available.
Upper and Lower	Not available.
Exposure Limits	
Vapour Pressure	Not available.
Specific Gravity	1.1 - 1.2
Solubilities	Emulsifiable in water
Partition Coefficient:	2.6 (at pH 7.5)
Auto-ignition	Not available.
Temperature	
Viscosity, dynamic	Not available.
Particle Characteristics	Not available.
Volatiles	Not available.

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Reactivity	This product is unlikely to react or decompose under normal storage conditions.
Conditions to Avoid	Keep isolated from combustible materials, direct sun light. This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry. Store in the closed original container in a dry, cool well-ventilated area out of direct sun light.
Incompatible Materials	Strong acids, strong bases, strong oxidising agents.
Hazardous Decomposition Products	Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. May form hydrogen chloride gas, other compounds of chlorine. May form hydrogen fluoride gas and other compounds of fluorine. Calcium compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Section 11 Toxi	cological Information
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Acute Effects:

Swallowed	Not applicable.
Dermal	May cause an allergic skin reaction.
Inhalation	Not applicable.
Skin	Not applicable.
Eye	Causes serious eye irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated
	exposure.

Fluensulfone:

LD50 Oral, Rat 500-1000mg/kg

LD50 Dermal, Rat = >4000mg/kg

LC50 Inhalation, Rat = >5.058mg/L/4hr

Inhalation:

Short term exposure: Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term inhalation.

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Skin Contact:

Short term exposure: Classified as a potential sensitiser by skin contact. Exposure to a skin sensitiser, once sensitisation has occurred, may manifest itself as skin rash or inflammation, and in some individuals this reaction can be severe. In addition, product may be irritating, but is unlikely to cause anything more than mild transient discomfort. Long Term exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short term exposure: This product is believed to be irritating, to eyes.

Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short term exposure: Significant oral exposure is considered to be unlikely. This product is believed to be mildly irritating to mucous membranes but is unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA. NTP: No significant ingredient is classified as carcinogenic by NTP. IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 12. Ecotoxicological Information

HSNO Classifications: Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to soil organisms, Hazardous to terrestrial vertebrates.

Persistence and degradability	Persistent in the aquatic environment, readily biodegradable in soil.
Diagram and Alice	
Bioaccumulation	Not bioaccumulative
Mobility in Soil	Highly mobile in soil
Other adverse effects	No data available on product
Precautions	Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method: Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers before puncturing and offering for recycling or landfill.



Precautions: Do not allow product to enter waterways.

Disposal methods to avoid: Do not burn product or container.

Section 14

Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433



Road and Rail Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Contains Fluensulfone)

Restrictions: DO NOT CARRY THIS PRODUCT ON A PASSENGER SERVICE

VEHICLE.

Air Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Contains Fluensulfone)

Marine Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Contains Fluensulfone)

Marine Pollutant Yes

Special Provisions:

If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

This substance is hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020

HSNO Approval Code: HSR101547

HSNO Classification: Eye irritation Category 2, Skin sensitisation Category 1A, Target organ systemic toxicity (repeat exposure) Category 2, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to soil organisms, Hazardous to terrestrial vertebrates.

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handlers	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100 L
Emergency Response Plan	100 L
Secondary Containment	100 L

HSNO Varied/Additional Contr Variation to Hazardous Property	The maximum application rate of Nimitz is 8 L/ha
Controls Notice Part 4B	(equivalent to 3.84 kg fluensulfone/ha), with a maximum
	frequency of one application per year;
Application method restrictions	Application method restrictions have been applied to this
Application method restrictions	substance:
	1. The substance must be applied using ground-based
	methods only;
	2. The substance must be applied with ground-based
	equipment with a low boom height and minimum
	coarse droplets, as defined by the American Society
	of Agricultural and Biological Engineers ASABE
	Standard (S572) or the British Crop Production
	Council guideline;
	3. The substance must not be applied when wind
	speeds are less than 3 km/hr or more than 20
	km/hr as measured at the application site;
	4. The substance must be incorporated into the soil
	after application; and
	5. Avoid application during rain or when rain is
	forecast within 72 hours after application.
Buffer zones	A buffer zone applies to this substance:
	1. To mitigate risks from run0ff, the substance should
	not be applied within 25 m of any down-slope
	waterbody; and
	2. To mitigate risks from spray drift, the substance
	must not be applied within 10 m upwind of any
	waterbody.
Hazardous Property Controls I	
HPC Notice Part 1	Hazardous Property Controls preliminary provisions
HPC Notice Part 3	Hazardous substances in a place other than a workplace
HPC Notice Part 4 Subpart A	Substances that are hazardous to the environment: Site
	and storage controls
HPC Notice Part 4 Subpart B	Use of substances that are hazardous to the environment
HPC Notice Part 4 Clause 47	Equipment for environmentally hazardous substances
	must be appropriate
HPC Notice Part 4 Clause 48	Records of application of ecotoxic pesticides and plant
	growth regulators
HPC Notice Part 4 Clause 52	Agrichemicals that are hazardous to the aquatic
	environment must not be applied to water
HPC Notice Part 4 Subpart C	Qualifications required for the application of substances
	that are hazardous to the environment
ACVM Act and Regulations	N. 2000704
Registered pursuant to the	No. P009781
ACVM Act 1997,	
See www.foodsafety.govt.nz for	
registration conditions	

Issued by: ADAMA New Zealand Ltd Tel: 64 3 543 8275 Product Name: Nimitz Date of SDS: 20 October 2022

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Section 16 Other Information

Glossary

ACVM Agricultural Compounds and Veterinary Medicines Act 1997.

EC50 Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority.

HSNO Hazardous Substances and New Organisms Act 1996.

HSW Health and Safety at Work Act 2015.

HSW (HS) Regulations Health and Safety at Work (Hazardous Substances) Regulations

2017.

LC50 Lethal concentration that will kill 50% of the test organisms inhaling

or ingesting it.

LD50 Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.
TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level.
WES Workplace Exposure Limit.

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer:

This document has been issued by Adama New Zealand Ltd and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which is held by Adama New Zealand Ltd or has been obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. While Adama New Zealand Ltd have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Adama New Zealand Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS. The information herein is given in good faith, but no warranty, express or implied is made.

Issue Date: 20 October 2022 Review Date: 20 October 2027

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