

# SAFETY DATA SHEET

An American Vanguard Company

## 1. Identification

Product identifier	Vapam® Soil Fumigant		
Other means of identification			
Synonyms	Metam Sodium * Metam * VAPAM		
Product registration number	62355		
SDS No.	141		
Recommended use of the chemi	cal and restrictions on use		
Recommended use	Soil Fumigant.		
Restrictions on use	No other uses are advised. Keep out of the Reach of Children!		
Details of manufacturer or impor	ter		
Manufacturer			
Company name	AgNova Technologies Pty Lt	d	
Address	Unit 4, 482 Kingsford Smith		
	Hamilton, Queensland 4007 Australia		
Telephone	AgNova Technologies Pty Ltd	03 9899 8100 (office hours)	
Website	agnova.com.au		
E-mail	info@agnova.com.au		
Emergency phone number	IXOM ERS Poisons Information Centre	1800 033 111 (24 hours) 13 11 26	

## 2. Hazard(s) identification

#### Classification of the hazardous chemical

Physical hazards	Corrosive to metals	Category 1
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitisation, skin	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1

#### Label elements, including precautionary statements

Hazard symbol(s)



 

 Signal word
 Warning

 Hazard statement(s)
 May be corrosive to metals. Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes eye irritation. May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)	
Prevention	Keep only in original packaging. Avoid breathing mist/vapours. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.
Response	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Absorb spillage to prevent material damage.
Storage	Not applicable.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards which do not result in classification	None known.
Supplemental information	Metham (or Metam) is a methyl isothiocyanate (MITC) precursor.

## 3. Composition/information on ingredients

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration o ingredients
Sodium Methyldithiocarbamate	137-42-8	423 g/L
Metam Sodium Metam		
Other non-hazardous ingredients	<u>-</u>	to 100 %

**Composition comments** 

This is a commercial product whose exact ratio of components may vary slightly.

## 4. First aid measures

## Description of necessary first aid measures

Description of necessary mist an	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison centre or doctor/physician if you feel unwell.
Skin contact	Call a poison centre or doctor/physician if you feel unwell. Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison centre immediately. Rinse mouth. Do not induce vomiting without advice from poison centre. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Personal protection for first aid responders	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

Symptoms caused by exposure	Overexposure to Metam Sodium as sold may result in damage to the skin, skin irritation, excessive salivation, sweating, fatigue, weakness, nausea, headache, dizziness, eye, nose, throat and respiratory tract irritation. In addition, dilution to use levels results in the release of methyl isothiocyanate (MITC) and/or hydrogen sulphide. Overexposure to MITC may result in strong skin and eye irritation, running nose, dizziness, cramps, nausea, vomiting, and mild to severe disturbances of the nervous system. Overexposure to hydrogen sulphide may result in severe irritation to the eyes and mucous membranes. In addition, exposure may result in headache, dizziness, excitement, staggering gait, diarrhea, difficult or painful urination, difficult breathing, chronic pulmonary edema, coma and death.
	Chronic exposure may also cause conjunctivitis, photophobia, digestive disturbances, weight loss, general bodily weakness, and blurred vision. In addition, laboratory studies have shown that exposure to the active ingredient, followed by ingestion of alcohol, may cause an adverse reaction, including low blood pressure, rapid heartbeat, and flushing of the skin. Consumption of alcohol during and after exposure to this product should be avoided.
Medical attention and special treatment	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed. Contact the Poison Information Centre (13 11 26 from anywhere in Australia) for further information (0800 764 766 in New Zealand).
5. Firefighting measures	
Extinguishing media Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Material reacts with water. Dilution with water may cause generation of flammable and toxic fumes of MITC and Hydrogen sulphide. See Chemical Stability information in Section 10.
Specific hazards arising from the chemical	Material reacts with water. This product can release toxic fumes of methyl isothiocyanate (MITC) and hydrogen sulphide, as well as nitrogen oxides, when heated to decomposition or diluted with water. Fire may produce irritating, corrosive and/or toxic gases.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting equipment/instructions	Evacuate the area promptly. Move containers from fire area if you can do so without risk.
Hazchem code	2X

Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

Specific methods

#### Personal precautions, protective equipment and emergency procedures

Personal precautions, protective	ons, protective equipment and emergency procedures		
For non-emergency personnel	Wear appropriate personal protective equipment.		
For emergency responders	Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapours. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8 of the SDS.		
Environmental precautions	Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.		
Methods and materials for	Prevent entry into waterways, sewer, basements or confined areas.		
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dyke the spilled material, where this is possible. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances. Clean the area as described for a small spill.		
	Small Spills: Absorb spillage with non-combustible, absorbent material. Scoop up used absorbent into drums or other appropriate container. Scrub the area with detergent and water. Rinse with water. Pick up wash liquid with additional absorbent and place in a disposable container.		
	Never return spills to original containers for reuse.		
7. Handling and storage			
Precautions for safe handling	Read label before use. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse.		
Conditions for safe storage, including any incompatibilities	Keep away from food, drink and animal feeding stuffs. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).		

## 8. Exposure controls and personal protection

#### **Control parameters**

Follow standard monitoring procedures.

#### **Occupational exposure limits**

#### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Decomposition	Туре	Value
Hydrogen sulphide (CAS 7783-06-4)	STEL	21 mg/m3
		15 ppm
	TWA	14 mg/m3
		10 ppm
US. ACGIH Threshold Limit Values	i	
Decomposition	Туре	Value
Hydrogen sulphide (CAS 7783-06-4)	STEL	5 ppm
	TWA	1 ppm
UK. EH40 Workplace Exposure Lir	nits (WELs)	
Decomposition	Туре	Value
Hydrogen sulphide (CAS 7783-06-4)	STEL	14 mg/m3
		10 ppm
	TWA	7 mg/m3
		5 ppm

# Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Decomposition	Туре	Value
Hydrogen sulphide (CAS 7783-06-4)	TWA	7.1 mg/m3
		5 ppm
Biological limit values	No biological exposure limits noted	for the ingredient(s).
Exposure guidelines	No exposure standards allocated.	
Appropriate engineering controls	Mechanical ventilation or local exha emergency shower must be availab	ust ventilation may be required. Eye wash facilities and le when handling this product.
Individual protection measures	s, for example personal protective e	quipment (PPE)
Eye/face protection		tight fitting chemical goggles should be used whenever ndled. A full face respirator should be worn whenever there is a
Skin protection		
Hand protection	Wear protective gloves.	
Other	Wear appropriate chemical resistar	it clothing.
Respiratory protection	cartridge with a prefilter approved for or canister approved for pesticides	TLV, a respirator with either an organic vapour-removing or pesticides (MSHA/NIOSH approval number prefix TC-23C), (MSHA/NIOSH approval number prefix TC-14G) is required. A be required if misting or splashing are possible.
Thermal hazards	Not applicable.	

### 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Colour	Light yellow-green
Odour	Essentially odourless to fairly strong odour of amine or sulphur.
Odour threshold	Not available.
рН	9.5 - 11
Melting point/freezing point	0 °C (32 °F)

Initial boiling point and boiling range	112 °C (233.6 °F)
Flash point	> 93.3 °C (> 200 °F) Closed cup
Evaporation rate	1 (compared to water)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower ( %)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	24 mm Hg (25 °C (77 °F))
Vapour density	Not available.
Relative density	1.21 at 20 °C/4 °C (68 °F/39 °F)
Solubility(ies)	
Solubility (water)	Miscible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other physical and chemical pa	rameters
Molecular formula	C2-H4-N-S2.Na
Molecular weight	129.18 g/mol
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport. May be corrosive to metals.
Chemical stability	Material is stable under normal conditions.
	Metam Sodium decomposes, when diluted with water, to methyl isothiocyanate (MITC, a lachrymator and moderate poison) and/or to hydrogen sulphide (a highly poisonous gas). Use the solution promptly after mixing. Do not allow the solution to stand. Metam Sodium can also decompose to carbon disulphide and monomethylamine (both highly flammable) if contacted with a strong acid.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Contact with incompatible materials. Contact with water liberates flammable gas.
Incompatible materials	This product is incompatible with additional water and strong aqueous acids. In addition, it is corrosive to copper, brass, and zinc, and may soften and/or discolour iron.
Hazardous decomposition products	When treated with water or heated to decomposition, this product will give off toxic fumes of methyl isothiocyanate (MITC), hydrogen sulphide, and nitrogen oxides. If treated with strong acids, fumes of carbon disulphide and monomethylamine will be given off.
11 Toxicological informat	lon

# 11. Toxicological information

# Information on possible routes of exposure

Inhalation	Harmful if inhaled.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes eye irritation.
Ingestion	Harmful if swallowed.

Symptoms related to exposure Overexposure to Metam Sodium as sold may result in damage to the skin, skin irritation, excessive salivation, sweating, fatigue, weakness, nausea, headache, dizziness, eye, nose, throat and respiratory tract irritation. In addition, dilution to use levels results in the release of methyl isothiocyanate (MITC) and/or hydrogen sulphide. Overexposure to MITC may result in strong skin and eye irritation, running nose, dizziness, cramps, nausea, vomiting, and mild to severe disturbances of the nervous system. Overexposure to hydrogen sulphide may result in headache, dizziness, excitement, staggering gait, diarrhea, difficult or painful urination, difficult breathing, chronic pulmonary edema, coma and death. Chronic exposure may also cause conjunctivitis, photophobia, digestive disturbances, weight loss, general bodily weakness, and blurred vision. In addition, laboratory studies have shown that exposure to the active ingredient, followed by ingestion of alcohol, may cause an adverse reaction, including low blood pressure, rapid heart beat, and flushing of the skin. Consumption of

alcohol during and after exposure to this product should be avoided.

Impaired pulmonary function and preexisting eye problems may be aggravated. Preexisting skin diseases may also be aggravated by exposure to the decomposition products.

Acute toxicity	Harmful if swallowed. Harmful if inhaled.	
Product	Species	Test Results
Vapam® Soil Fumigant		
Acute		
Dermal		
LD50	Rabbit	> 2020 mg/kg
Inhalation LC50	Rat	2.28 mg/l
Oral	Παι	2.20 mg/
LD50	Rat	812 mg/kg
Decomposition	Species	Test Results
Methyl isothiocyanate (MITC) (CA	•	
Acute	,	
Dermal		
LD50	Rabbit	33 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Irritation Corrosion - Sk Vapam® Soil Fumigant	in	Result: Moderate Irritant Species: Rabbit
Serious eye damage/irritation	Causes eye irritation.	
Irritation Corrosion - Ey Vapam® Soil Fumigant	e	Result: Mild Irritant Species: Rabbit
Respiratory or skin sensitisation		
Skin sensitisation	May cause an allergic skin rea	action.
Skin Sensitisation Vapam® Soil Fumigant		Result: Sensitiser Species: Guinea pig
Germ cell mutagenicity	No evidence of mutagenicity "in vivo", but some evidence has been observed "in vitro", in mutagenicity animal testing.	
Carcinogenicity	Limited evidence of a carcino	genic effect.
Reproductive toxicity	This product has shown some developmental effects but has not shown any reproductive effects in laboratory animals.	
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	
Aspiration hazard	Not available.	
Chronic effects	Prolonged inhalation may be harmful.	

## 12. Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects. This product is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

	mark. Do not	contaminate water when disposing of equi	pment washwaters.	
Decomposition		Species	Test Results	
Hydrogen sulphide (CAS 7783-06-	4)			
Aquatic				
Acute				
Crustacea	EC50	Scud (Gammarus pseudolimnaeus)	0.062 mg/l, 2 days	
Fish	LC50	Fathead minnow (Pimephales promelas)	0.007 mg/l, 96 hours	
Methyl isothiocyanate (MITC) (CAS	S 556-61-6)	, i i ,	0	
Aquatic				
Acute				
	LC50	Water flea (Daphnia magna)	0.18 - 0.56 mg/l, 48 hours	
		······································	0.032 - 0.1 mg/l, 14 days	
			0.032 - 0.1 mg/l, 14 days	
Persistence and degradability	Product decon	nposes rapidly in wet environments.		
Bioaccumulative potential	Decomposes i	apidly - will not bioaccumulate.		
Partition coefficient				
n-octanol / water (log Kow)				
Sodium Methyldithiocarbamat	е	< 1 0.94		
Methyl isothiocyanate (MITC)	This was doned at			
Mobility in soil	the soil.	ecomposes when diluted with water and the	ne decomposition products will leach from	
Other adverse effects	Not available.			
13. Disposal consideration	15			
Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow			
		drain into sewers/water supplies. Do not		
		or used container. Dispose of contents/con pational/international regulations	ntainer in accordance with	
Residual waste	•	local/regional/national/international regulations. Dispose of in accordance with all applicable regulations. Empty containers or liners may retain		
Residual Waste	some product residues. This material and its container must be disposed of in a safe manner (see:			
		ods/information).		
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.			
	Since emptied containers may retain product residue, follow label warnings even after container is			
	emptied.			
14. Transport information				
ADG				
UN number	3266			
UN proper shipping name	CORROSIVE	LIQUID, BASIC, INORGANIC, N.O.S. (Me	tam Sodium)	
Transport hazard class(es)				
Class	8			
Subsidiary risk	-			
Packing group	III			
Environmental hazards	No			
Hazchem code		2X		
Special precautions for user RID	r Not available.			
UN number	3266			
UN number UN proper shipping name		3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium)		
Transport hazard class(es)	SURVE			
Class	8			
Subsidiary risk	-			
Lobel(a)	0			

Environmental hazards

Special precautions for user Not available.

8 III

Yes

Label(s)

Packing group

POLLUTANT         Transport hazard class(es)         Class       8         Subsidiary risk       -         Packing group       III         Environmental hazards       Yes         Marine pollutant       Yes         EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Not established.       Not established.	IAIA	
Transport hazard class(es)       8         Class       8         Subsidiary risk       -         Packing group       III         Environmental hazards       No         ERG Code       8L         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Other information       Passenger and cargo aircraft         Passenger and cargo aircraft only       Allowed with restrictions.         IMDG       2266         UN number       3266         UN proper shipping name       CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANT         Transport hazard class(es)       Class         Class       8         Subsidiary risk       -         Packing group       III         Environmental hazards       8         Marine pollutant       Yes         EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Not established.       Not established.	UN number	3266
Class8Subsidiary risk-Packing groupIIIEnvironmental hazardsNoERG Code8LSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Other informationPassenger and cargo aircraftPassenger and cargo aircraft or userAllowed with restrictions.IMDG3266UN number3266UN proper shipping nameCORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANTTransport hazard class(es)8Class8Subsidiary risk-Packing groupIIIEmSSecial precautions for userKarine pollutantYesEmSF-A, S-BSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Not established.Not established.	UN proper shipping name	Corrosive liquid, basic, inorganic, n.o.s. (Metam Sodium 42%)
Subsidiary risk-Packing groupIIIEnvironmental hazardsNoERG Code8LSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Other informationAllowed with restrictions.Passenger and cargo aircraftAllowed with restrictions.Cargo aircraft Cargo aircraft UN number3266UN numberCORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANTTransport hazard class(es)8Class8Subsidiary risk-Packing groupIIIEnvironmental hazards%Marine pollutantYesEmSF-A, S-BSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Not established.Kot established.	Transport hazard class(es)	
Packing group       III         Environmental hazards       No         ERG Code       8L         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Other information       Passenger and cargo aircraft         Cargo aircraft       Allowed with restrictions.         Cargo aircraft       Allowed with restrictions.         UN number       3266         UN proper shipping name       CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANT         Transport hazard class(es)       6         Class       8         Subsidiary risk       -         Packing group       III         III       Packing group         Marine pollutant       Yes         EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Not established.       Not established.	Class	8
Environmental hazardsNoERG Code8LSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Other informationAllowed with restrictions.Passenger and cargo aircraftAllowed with restrictions.Cargo aircraft onlyAllowed with restrictions.IMDG3266UN number3266UN proper shipping nameCORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANTTransport hazard class(es)ClassClass8Subsidiary risk-Packing groupIIIEnvironmental hazardsYesMarine pollutantYesFmSF-A, S-BSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Not established.Not established.	Subsidiary risk	-
ERG Code8LSpecial precautions for user Other informationRead safety instructions, SDS and emergency procedures before handling. Other informationPassenger and cargo aircraft Cargo aircraft onlyAllowed with restrictions.IMDGAllowed with restrictions.IMDGCORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANTTransport hazard class(es) Class8Class8Subsidiary risk Packing group-Marine pollutant EmsYesEmsF-A, S-BSpecial precautions for user Transport in bulk according toKead safety instructions, SDS and emergency procedures before handling.	Packing group	III
Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Other information       Passenger and cargo aircraft         Passenger and cargo aircraft       Allowed with restrictions.         Cargo aircraft only       Allowed with restrictions.         IMDG       3266         UN number       3266         UN proper shipping name       CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANT         Transport hazard class(es)       Class         Class       8         Subsidiary risk       -         Packing group       III         Environmental hazards       Yes         Marine pollutant       Yes         EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Not established.       Not established.	Environmental hazards	No
Other informationAllowed with restrictions.Passenger and cargo aircraftAllowed with restrictions.IMDGAllowed with restrictions.IMDG3266UN number3266UN proper shipping nameCORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANTTransport hazard class(es)6Class8Subsidiary risk-Packing groupIIIEnvironmental hazardsYesMarine pollutantYesEmSF-A, S-BSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling. Not established.	ERG Code	8L
Passenger and cargo aircraftAllowed with restrictions.IMDGAllowed with restrictions.IMDG3266UN number3266UN proper shipping nameCORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANTTransport hazard class(es)8Class8Subsidiary risk-Packing groupIIIEnvironmental hazardsYesMarine pollutantYesEmSF-A, S-BSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling. Not established.	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
aircraft       Cargo aircraft only       Allowed with restrictions.         IMDG       3266         UN number       3266         UN proper shipping name       CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANT         Transport hazard class(es)       Class         Class       8         Subsidiary risk       -         Packing group       III         Environmental hazards       Ves         Marine pollutant       Yes         EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Not established.       Not established.	Other information	
IMDG       3266         UN number       3266         UN proper shipping name       CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANT         Transport hazard class(es)       Class         Class       8         Subsidiary risk       -         Packing group       III         Environmental hazards       Yes         EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Not established.       Not established.	<b>v</b>	Allowed with restrictions.
UN number3266UN proper shipping nameCORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANTTransport hazard class(es)ClassClass8Subsidiary risk-Packing groupIIIEnvironmental hazardsVesMarine pollutantYesEmSF-A, S-BSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling. Not established.	Cargo aircraft only	Allowed with restrictions.
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POLLUTANT         Transport hazard class(es)         Class       8         Subsidiary risk       -         Packing group       III         Environmental hazards       Yes         Marine pollutant       Yes         EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Not established.       Not established.	UN number	3266
Class8Subsidiary risk-Packing groupIIIEnvironmental hazardsYesMarine pollutantYesEmSF-A, S-BSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling. Not established.	UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Metam Sodium 42%), MARINE POLLUTANT
Subsidiary risk       -         Packing group       III         Environmental hazards       Yes         Marine pollutant       Yes         EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Transport in bulk according to       Not established.	Transport hazard class(es)	
Packing group       III         Environmental hazards       Yes         Marine pollutant       Yes         EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Transport in bulk according to       Not established.	Class	8
Environmental hazards         Marine pollutant       Yes         EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Transport in bulk according to       Not established.	Subsidiary risk	-
Marine pollutant       Yes         EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Transport in bulk according to       Not established.	Packing group	III
EmS       F-A, S-B         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Transport in bulk according to       Not established.	Environmental hazards	
<b>Special precautions for user</b> Read safety instructions, SDS and emergency procedures before handling. <b>Transport in bulk according to</b> Not established.	Marine pollutant	Yes
Transport in bulk according to Not established.	EmS	F-A, S-B
Annex II of MARPOL 73/78 and the IBC Code	Annex II of MARPOL 73/78 and the IBC Code	
ADG	ADG	



IATA; IMDG; RID



Marine pollutant



General information

National regulations

#### IMDG Regulated Marine Pollutant.

#### 15. Regulatory information

#### Safety, health and environmental regulations

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals.

Australia Medicines & Poisons Appendix A Poisons schedule number not allocated. Australia Medicines & Poisons Appendix B Poisons schedule number not allocated. Australia Medicines & Poisons Appendix D Poisons schedule number not allocated. Australia Medicines & Poisons Appendix E Poisons schedule number not allocated. Australia Medicines & Poisons Appendix F Poisons schedule number not allocated. Australia Medicines & Poisons Appendix G Poisons schedule number not allocated. Australia Medicines & Poisons Appendix H Poisons schedule number not allocated. Australia Medicines & Poisons Appendix I Poisons schedule number not allocated. Australia Medicines & Poisons Appendix J Poisons schedule number not allocated. Australia Medicines & Poisons Appendix K Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 10 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 2 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 3 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 4 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 5 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 6 Sodium Methyldithiocarbamate (CAS 137-42-8) Australia Medicines & Poisons Schedule 7 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 8 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 9 Poisons schedule number not allocated. High Volume Industrial Chemicals (HVIC) Not listed. Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10) Not listed National Pollutant Inventory (NPI) substance reporting list Not listed. **Prohibited Carcinogenic Substances** Not regulated. Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended) Not listed. **Restricted Carcinogenic Substances** Not regulated. Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9) Not listed.

#### International regulations

On inventory (yes/no)*
AICIS) No
No
No
Chemical No
ory No

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information

Issue date	26-June-2019
Revision date	21-October-2022
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Revision information	Other information: Disclaimer