

Novachem Pty Ltd

Version No: 1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **18/07/2018** Print Date: **18/07/2018** S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Dimethyl Sulfoxide-D6
Chemical Name	dimethyl sulfoxide-D6
Synonyms	DLM-10TB
Chemical formula	C2-D6-O-S
Other means of identification	Not Available
CAS number	2206-27-1*

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

Relevant identified uses	Laboratory chemicals

Details of the supplier of the safety data sheet

Registered company name	Novachem Pty Ltd
Address	25 Crissane Road, Heidelberg West Victoria 3081 Australia
Telephone	+61384151255
Fax	+61386250088
Website	www.novachem.com.au
Email	novachem@novachem.com.au

Emergency telephone number

Association / Organisation	Victorian Poisons Information Centre	
Emergency telephone numbers	13 11 26	
Other emergency telephone numbers	Not Available	

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

COMBUSTIBLE LIQUID, regulated for storage purposes only

H335

May cause respiratory irritation.

Poisons Schedule	Not Applicable	
Classification ^[1]	Flammable Liquid Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)	
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI		

Label elements

Hazard pictogram(s)	
SIGNAL WORD	WARNING
Hazard statement(s)	
H227	Combustible liquid.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P271	se only outdoors or in a well-ventilated area.	
P261	Avoid breathing mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

Precautionary statement(s) Response

	-	
P362	P362 Take off contaminated clothing and wash before reuse.	
P370+P378	a case of fire: Use water spray/fog for extinction.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	P312 Call a POISON CENTER or doctor/physician if you feel unwell.	

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

CAS No	%[weight]	Name
2206-27-1	100	dimethyl sulfoxide-D6

Mixtures

See section above for composition of Substances

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.	
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area.
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon dioxide (CO2) sulfur oxides (SOx) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.
HAZCHEM	Not Applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.
Major Spills	Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

•	
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT allow clothing wet with material to stay in contact with skin
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities

Suitable container Glass container is suitable for laboratory quantities Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. Image: Check all containers are clearly labelled and free from leaks. Image: Check all containers are clearly labelled and free from leaks. Image: Check all containers are clearly labelled and free from leaks. Image: Check all containers are clearly labelled and free from leaks. Image: Check all containers are clearly labelled and free from leaks. Image: Check all containers are clearly labelled and free from leaks. Many aprotic (non-hydroxylic) solvents are not inert towards other reagents and care must be taken when using untried combinations of solvents an reagents for the first time. Some aprotic solvents have a dramatic effect on reaction rates Immethyl sulfoxide: reacts violently or explosively with oxidisers, acryl halides, and related compounds, non-metallic chlorides and other active halogen compounds, periodic acid, silver fluoride, sodium hydride, potassium permanganate forms powerfully explosive mixtures with metal salts of oxoacids All blends containing DMSO must be buffered at PH 7-9 before distillation. Forlonged heating above 15 deg.C (302 deg. F) can cause rapid, exothermic decomposition Sulfoxide ion may react violently or explosively with acyl halides, non-me		
 reagents for the first time. Some aprotic solvents have a dramatic effect on reaction rates Dimethyl sulfoxide: reacts violently or explosively with oxidisers, acryl halides, aryl halides and related compounds, non-metallic chlorides and other active halogen compounds, p-bromobenzoyl acetanilide, diborane, boron compounds, iodine pentafluoride, magnesium perchlorate, methyl bromide, perchloric acid, periodic acid, silver fluoride, sodium hydride, potassium permanganate forms powerfully explosive mixtures with metal salts of oxoacids All blends containing DMSO must be buffered at pH 7-9 before distillation. Prolonged heating above 15 deg.C (302 deg. F) can cause rapid, exothermic decomposition Sulfoxide in may react violently or explosively with acyl halides and thioryl halides, benzenesulfonyl halides, cyanuric halides, oxalyl phosphorus trihalides, phosphorus oryhalides, sulfuryl halides and thioryl halides. These violent reactions may occur as a result of exothermic polymerisation of formaldehyde produced by the interaction of the sulfoxide with reactive halides, and acidic or basic reagents. Alkyl halides may produce a delayed, vigorous and strongly exothermic reaction. 	Suitable container	Metal can or drum Packaging as recommended by manufacturer.
► Avoid reaction with oxidising agents	Storage incompatibility	 reagents for the first time. Some aprotic solvents have a dramatic effect on reaction rates Dimethyl sulfoxide: reacts violently or explosively with oxidisers, acryl halides, aryl halides and related compounds, non-metallic chlorides and other active halogen compounds, p-bromobenzoyl acetanilide, diborane, boron compounds, iodine pentafluoride, magnesium perchlorate, methyl bromide, perchloric acid, periodic acid, silver fluoride, sodium hydride, potassium permanganate forms powerfully explosive mixtures with metal salts of oxoacids All blends containing DMSO must be buffered at pH 7-9 before distillation. Prolonged heating above 15 deg.C (302 deg. F) can cause rapid, exothermic decomposition Sulfoxide ion may react violently or explosively with acyl halides, non-metal halides, benzenesulfonyl halides, oxalyl phosphorus trihalides, phosphorus oxyhalides, sulfuryl halides and thionyl halides. These violent reactions may occur as a result of exothermic polymerisation of formaldehyde produced by the interaction of the sulfoxide with reactive halides, and acidic or basic reagents. Alkyl halides may produce a delayed, vigorous and strongly exothermic reaction. Strong bases may produce violent ignition.

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Dimethyl Sulfoxide-D6

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
dimethyl sulfoxide-D6	Methyl sulfoxide-d6; (Dimethyl-d6-sulfoxide)		150 ppm	290 ppm	1,800 ppm
Ingredient	Original IDLH	Revi	ised IDLH		
dimethyl sulfoxide-D6	Not Available	Not A	Available		

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.
Personal protection	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and.has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Aprotic solvents may greatly promote the toxic properties of solutes because of their unique ability to penetrate synthetic rubber protective gloves and the skin (butyl rubber gloves are reported to be more satisfactory than others Neoprene gloves
Body protection	See Other protection below
Other protection	 Overalls. P.V.C. apron. Barrier cream.

Respiratory protection

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Liquid	Relative density (Water = 1)	1.10
Odour	Not Available	Partition coefficient n-octanol / water	1.21
Odour threshold	Not Available	Auto-ignition temperature (°C)	215 (300)
pH (as supplied)	Not Applicable	Decomposition temperature	100 approx.
Melting point / freezing point (°C)	18.4	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	189	Molecular weight (g/mol)	84.17

Flash point (°C)	87	Taste	Not Available
Evaporation rate	1.4 BuAc=1 Not Available	Explosive properties	Not Available
Flammability	Combustible.	Oxidising properties	Not Available
Upper Explosive Limit (%)	42	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	3.5	Volatile Component (%vol)	100 approx.
Vapour pressure (kPa)	0.053	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	2.7	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Inhalation hazard is increased at higher temperature Inhalation of vapours of DMSO may cause cough or a	persons. The body's response to such irritation can cause further lung damage. s. a burning sensation. High concentrations may cause nausea, vomiting, chills, cramps, headache, doses may be lethal. Repeated exposure may cause liver damage and inflammation of the airway and			
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Accidental ingestion of the material may be damaging to the health of the individual. DMSO has very few toxic symptoms in humans. The most common are nausea, skin rashes and an unusual garlic-onion-oyster smell on the body and breath. Swallowing large quantities of DMSO may cause vomiting, diarrhoea, cramps, chills and drowsiness.				
Skin Contact	Topical exposure to DMSO results in stinging sensat disturbances of colour vision, headache, aversion to breakdown of the blood, drowsiness and shock. DMS with DMSO solutions containing toxic material or mate enhance the rate of skin absorption of other skin-perm Open cuts, abraded or irritated skin should not be exp Entry into the blood-stream, through, for example, cut use of the material and ensure that any external dama	of the individual; systemic effects may result following absorption. ion, skin burns, redness, itching, scaly rashes and blisters. There may be �garlic� breath, transien ight, diarrhoea, numbness, tiredness, chills, chest pains, aching eyes, dark urine from rapid O is commonly used as a carrier for topical preparations of many chemicals including drugs. Contact arials with unknown toxicology should be avoided, as DMSO easily penetrates the skin and may teable substances. osed to this material s, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the ige is suitably protected. tion of the skin either following direct contact or after a delay of some time. Repeated exposure can			
Eye	injury and are tolerated well. Application of its full stre blood vessels with bleeding. These effects are revers	the material may cause eye irritation in a substantial number of individuals. Prolonged eye contact			
Chronic	Substance accumulation, in the human body, may occ There is some evidence that inhaling this product is n There is limited evidence that, skin contact with this p population. Topical application for 6 months resulted in bad breat continuation of treatment. Continuous applications un	in airways disease, involving difficulty breathing and related whole-body problems. ur and may cause some concern following repeated or long-term occupational exposure. nore likely to cause a sensitisation reaction in some persons compared to the general population. roduct is more likely to cause a sensitisation reaction in some persons compared to the general h, transient reddening of skin, burning and stinging with moderate inflammation. These reversed with der an occluding membrane produced hardening of the skin within a month. There could be eye ion, liver enlargement, and kidney damage may occur.			
	ΤΟΧΙΟΙΤΥ	IRRITATION			
Dimethyl Sulfoxide-D6	Not Available	Not Available			
dimethyl sulfoxide-D6	TOXICITY Not Available	IRRITATION Not Available			
Legend:	1. Value obtained from Europe ECHA Registered Su				

	stinging and itching, which disappear after discontinuation. It is mildly irritating to the eye and ma Long term exposure may cause poor weight gain and changes in the blood and eye. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on scaling and thickening of the skin.	or prolonged exposure to irritants may produce
Dimethyl Sulfoxide-D6 &	Asthma-like symptoms may continue for months or even years after exposure to the material ends reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels o RADS include the absence of previous airways disease in a non-atopic individual, with sudden or hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a re	f highly irritating compound. Main criteria for diagnosing nset of persistent asthma-like symptoms within minutes to
DIMETHYĹ SULFOXIDE-D6	severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lympl Extensive monitoring of humans has shown that DMSO does not affect human kidney function. A of kidney damage or cancer has been found. Repeated skin application can cause occasional ski metabolised in the body and excreted in the urine, faeces, through the breath and skin.	Ithough it causes an increase in urine production, no sign
	Extensive monitoring of humans has shown that DMSO does not affect human kidney function. A of kidney damage or cancer has been found. Repeated skin application can cause occasional ski	Ithough it causes an increase in urine production, no sign
DIMETHYL SULFOXIDE-D6	Extensive monitoring of humans has shown that DMSO does not affect human kidney function. A of kidney damage or cancer has been found. Repeated skin application can cause occasional ski metabolised in the body and excreted in the urine, faeces, through the breath and skin.	Ithough it causes an increase in urine production, no sign in irritation, garlicky breath and body odour. It is
DIMETHYL SULFOXIDE-D6	Extensive monitoring of humans has shown that DMSO does not affect human kidney function. A of kidney damage or cancer has been found. Repeated skin application can cause occasional ski metabolised in the body and excreted in the urine, faeces, through the breath and skin. Carcinogenicity	Nthough it causes an increase in urine production, no sign in irritation, garlicky breath and body odour. It is
DIMETHYL SULFOXIDE-D6 Acute Toxicity Skin Irritation/Corrosion	Extensive monitoring of humans has shown that DMSO does not affect human kidney function. A of kidney damage or cancer has been found. Repeated skin application can cause occasional ski metabolised in the body and excreted in the urine, faeces, through the breath and skin. O Carcinogenicity Image: Constraint of the state of the st	Ithough it causes an increase in urine production, no sign in irritation, garlicky breath and body odour. It is

✓ – Data available to make classification

O – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Not Available	Not Available	Not Available	Not Available	Not Available
ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Not Available	Not Available	Not Available	Not Available	Not Available
Extracted from 1. IUC	CLID Toxicity Data 2. Europe ECHA Registe	ered Substances - Ecotoxicolog	gical Information - Aquatic	Toxicity 3. EPIWIN Suite V
	Not Available ENDPOINT Not Available	Not Available Not Available ENDPOINT TEST DURATION (HR) Not Available Not Available	Not Available Not Available Not Available ENDPOINT TEST DURATION (HR) SPECIES Not Available Not Available Not Available	Not Available Not Available Not Available ENDPOINT TEST DURATION (HR) SPECIES VALUE

(Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

For Dimethyl Sulfoxide (DMSO): Half-life (hr): 7; Melting Point: 18.5 C; Boiling Point: 189 C (at 1,013 hPa); log Kow: -1.35; Vapor Pressure: 0.81 hPa @ 25 C; Henry Law's Constant: 1.17 10+5 mol.kg-1.atm-1.

Environmental Fate: DMSO is a colorless liquid which, in some cases, has a light, characteristic sulfur odor due to traces of the raw material dimethyl sulfide. The main compartments will be soil (60.4%) and water (39.5%) with the remainder partitioning between air (0.0334%) and sediment (0.0723%). Aquatic Fate: DMSO is able to mix in all proportion with water and with most of the common organic solvents such as alcohols, esters, ketones, ethers, chlorinated solvents and aromatics.

DO NOT discharge into sewer or waterways

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dimethyl sulfoxide-D6	HIGH	HIGH
		·

Bioaccumulative potential

Ingredient	Bioaccumulation
dimethyl sulfoxide-D6	LOW (LogKOW = -1.2223)

Mobility in soil

Ingredient	Mobility
dimethyl sulfoxide-D6	LOW (KOC = 4.411)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In
	some areas, certain wastes must be tracked.
	A Hierarchy of Controls seems to be common - the user should investigate:
	▶ Reduction
Product / Packaging disposal	▶ Reuse
	▶ Recycling
	Disposal (if all else fails)
	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

DO NOT allow wash water from cleaning or process equipment to enter drains.
It may be necessary to collect all wash water for treatment before disposal.
In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
In the absence of dissolved oxygen and in the presence of bacteria, a small amount of DMSO can be reduced to DMS (dimethyl sulfide), which produces a
nauseating odour at very small concentrations.
These specific conditions occur mainly with DMSO effluents in poorly aerated, non sterile storage tanks or in biological waste treatment plant.
With spot quantity of DMSO effluents in drums or storage tank, odour can be prevented or eliminated with 0,3% concentration of castor oil based formulation.
▶ In biological water treatment plant, DMS formation can be inhibited with less than 5 ppm of nitrates such as KNO3.
Recycle wherever possible or consult manufacturer for recycling options.
Consult State Land Waste Authority for disposal.
Bury or incinerate residue at an approved site.
 Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required

	COMBUSTIBLE LIQUID, regulated for storage purposes only
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

DIMETHYL SULFOXIDE-D6(2206-27-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)	Austra
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Append	ix 4
E (Part 2)	Austra

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule ${\bf 4}$

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule $\mathbf{6}$

National Inventory Status

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (dimethyl sulfoxide-D6)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (dimethyl sulfoxide-D6)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	N (dimethyl sulfoxide-D6)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Revision Date	18/07/2018
Initial Date	18/07/2018

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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