

ITW AAMTech

Chemwatch: 4761-46

Version No: 4.1.1.1

Material Safety Data Sheet according to NOHSC and ADG requirements

Issue Date: 23/09/2014 Print Date: 02/06/2015

Chemwatch Hazard Alert Code: 1

Initial Date: Not Available S.Local.AUS.EN

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

Product Identifier

Product name	Permatex Gasket Remover - Low VOC Formula
Synonyms	PX80645
Proper shipping name	AEROSOLS
Other means of identification	Not Available

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

Delevent identified	Use according to manufacturer's directions.
Relevant Identified	Application is by spray atomisation from a hand held aerosol pack
uses	Cleaner.

Details of the manufacturer/importer

Registered company name	ITW AAMTech	ITW AAMTech
Address	100 Hassall Street 2164 NSW Australia	Unit 2/38 Trugood Drive 2013 New Zealand
Telephone	1800 177 989	+64 9272 1940
Fax	1800 308 556	+64 9272 1949
Website	www.aamtech.com.au	www.aamtech.co.nz
Email	info@aamtech.com.au	info@aamtech.co.nz

Emergency telephone number

Association / Organisation	Not Available	Not Available
Emergency telephone numbers	1800 039 008	+800 2436 2255
Other emergency telephone numbers	+61 3 9573 3112	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS SUBSTANCE. DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

Poisons Schedule	Not Applicable	
	R44	Risk of explosion if heated under confinement.
Risk Phrases ^[1]	R68	Possible risk of irreversible effects.
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	
GHS Classification	Not Applicable	

Label elements

Permatex Gasket Remover - Low VOC Formula

GHS label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE
Hazard statement(s)	

AUH044

Risk of explosion if heated under confinement

Precautionary statement(s) Prevention

Precautionary statement(s) Response

Precautionary statement(s) Storage

Precautionary statement(s) Disposal

Label elements



Relevant risk statements are found in section 2

Xn

Indication(s) of danger

SAFETY ADVICE

S02	Keep out of reach of children.
S15	Keep away from heat.
S23	Do not breathe gas/fumes/vapour/spray.
S35	This material and its container must be disposed of in a safe way.
S36	Wear suitable protective clothing.
S37	Wear suitable gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S40	To clean the floor and all objects contaminated by this material, use water.
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well ventilated areas.
S53	Avoid exposure - obtain special instructions before use.
S56	Dispose of this material and its container at hazardous or special waste collection point.

Other hazards

Inhalation and/or skin contact may produce health damage*.
May produce discomfort of the eyes, respiratory tract and skin*.
Limited evidence of a carcinogenic effect*.
Cumulative effects may result following exposure*.
Vapours potentially cause drowsiness and dizziness*.
Repeated exposure potentially causes skin dryness and cracking*.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
1119-40-0	10-30	dimethyl glutarate
627-93-0	<5	dimethyl adipate

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8042-47-5	<5	white mineral oil (petroleum)
106-65-0	<5	dimethyl succinate
7727-37-9.	<5	nitrogen
7732-18-5	50-70	water

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	 If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes 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. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation.
Inhalation	 If aerosols, fumes or combustion products are inhaled: Remove to fresh air. 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. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	Not considered a normal route of entry. 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

Treat symptomatically.

for simple esters:

BASIC TREATMENT

• Establish a patent airway with suction where necessary.

- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- Give activated charcoal.

ADVANCED TREATMENT

- · Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.

• Proparacaine hydrochloride should be used to assist eye irrigation.

EMERGENCY DEPARTMENT

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

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Extinguishing media

► Water spray or fog.		 SMALL FIRE: ▶ Water spray, dry chemical or CO2 LARGE FIRE: ▶ Water spray or fog.
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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	S
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course.
Fire/Explosion Hazard	 Non combustible. Not considered to be a significant fire risk.

Heating may cause expansion or decomposition leading to violent rupture of containers. Aerosol cans may explode on exposure to naked flames.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear protective clothing, impervious gloves and safety glasses. Shut off all possible sources of ignition and increase ventilation.
Major Spills	 DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive.
	Personal Protective Equipment advice is contained in Section 8 of the MSDS.

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.
Other information	Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can

Conditions for safe storage, including any incompatibilities

Suitable container	 Aerosol dispenser. Check that containers are clearly labelled.
Storage incompatibility	 Avoid reaction with oxidising agents strong acids strong alkalis

PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
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Australia Exposure Standards	white mineral oil (petroleum)	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	nitrogen	Nitrogen	Not Available	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
white mineral oil (petroleum)	Mineral oil, white		15 mg/m3	82 mg/m3	490 mg/m3
dimethyl succinate	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester;)	2.5 ppm	28 ppm	170 ppm
nitrogen	Nitrogen		7.96E+05 ppm	832000 ppm	869000 ppm
Ingredient	Original IDLH Revise		dIDLH		
dimethyl glutarate	Not Available Not Av		vailable		
dimethyl adipate	Not Available No		t Available		
white mineral oil (petroleum)	Not Available	Not Available			
dimethyl succinate	Not Available	Not Available			
nitrogen	Not Available	Not Available			
water	Not Available Not 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	No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE: For potentially moderate or heavy exposures: • Safety glasses with side shields. • NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them.
Skin protection	See Hand protection below
Hands/feet protection	 For esters: Do NOT use natural rubber, butyl rubber, EPDM or polystyrene-containing materials. No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: Wear general protective gloves, eg. light weight rubber gloves. For potentially heavy exposures: Wear chemical protective gloves, eg. PVC.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Skin cleansing cream. • Eyewash unit.
Thermal hazards	Not Available

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the

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Material	СРІ
BUTYL	С
NATURAL RUBBER	С
NEOPRENE	С
PVA	С
VITON	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersionC: Poor to Dangerous Choice for other than short term immersionNOTE: As a series of factors will influence the actual performance of the

glove, a final selection must be based on detailed observation. -* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted. nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White viscous lotion with an ester odour; miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	1.07
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	5.9-7.1	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>93 (PMCC)	Taste	Not Available
Evaporation rate	<1 BuAC = 1	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	VOC = 6%
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	>1	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Elevated temperatures. Presence of open flame. 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 of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons.
Ingestion	Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments
Skin Contact	Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	Not considered to be a risk because of the extreme volatility of the gas. There is some evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.
Chronic	There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Principal route of occupational exposure to the gas is by inhalation. Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes.

Permatex Gasket	TOXICITY	IRRITATION
Remover - Low VOC Formula	Not Available	Not Available
	ТОХІСІТҮ	IRRITATION
	dermal (rat) LD50: >2000 mg/kg ^[1]	[Manuf. DU]
dimethyl glutarate	Oral (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): Irritant
		Skin (human): Irritant
	ТОХІСІТҮ	IRRITATION
	Dermal (rabbit) LD50: >2500 mg/kg ^[2]	Eye (rabbit): Irritant
dimethyl adipate	Inhalation (rat) LC50: 10.7 mg/l/1h ^[2]	Skin (human): SEVERE
	Inhalation (rat) LC50: 11 mg/l/4h ^[2]	
	Oral (rat) LD50: 8191 mg/kgt ^[2]	
	ТОХІСІТҮ	IRRITATION
white mineral oil (petroleum)	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Not Available
(perforcum)	Oral (rat) LD50: >5000 mg/kg ^[1]	
	TOXICITY	IRRITATION
dimethyl succinate	dermal (rat) LD50: >2000 mg/kg ^[1]	Nil reported
	Oral (rat) LD50: >5000 mg/kgd ^[2]	
	тохісіту	IRRITATION
nitrogen	Not Available	Not Available
	тохісіту	IRRITATION
water	Oral (rat) LD50: >90000 mg/kg ^[2]	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substa Unless otherwise specified data extracted from RTECS	ances - Acute toxicity 2.* Value obtained from manufacturer's msds. S - Register of Toxic Effect of chemical Substances

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Permatex Gasket Remover - Low VOC Formula	No significant acute toxicological data identified DBEs have very low acute oral toxicities but m the lining of the nose (smell organ). They are n	d in literature search. nay be lethal at very high do not likely to have any effect o	ses. They may irritate the eyes and damage on reproduction.
DIMETHYL GLUTARATE	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. DBEs have very low acute oral toxicities but may be lethal at very high doses. They may irritate the eyes and damage the lining of the nose (smell organ). They are not likely to have any effect on reproduction.		
WHITE MINERAL OIL (PETROLEUM)	 The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives; The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since: The adverse effects of these materials are associated with undesirable components, and The levels of the undesirable components are inversely related to the degree of processing; Distillate base oils receiving the same degree or extent of processing will have similar toxicities; The potential toxicity of <i>residual base oils</i> is independent of the degree of processing the oil receives. The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing. Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon molecules and have shown the highest potential carcinogenic and mutagenic activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. Oral (rat) TCLo: 92000 mg/kg/92D-Cont. Generally the toxicity and irritation is of low order. White oils and highly/solvent refined oils have not shown the long term risk of skin cancer that follows persistent skin contamination with some other mineral oils, due in all probability to refining that produces low content of both polyaromatics (PAH) and benz-alpha-pyrenes (BaP) 		
DIMETHYL ADIPATE & DIMETHYL SUCCINATE	DBEs have very low acute oral toxicities but may be lethal at very high doses. They may irritate the eyes and damage the lining of the nose (smell organ). They are not likely to have any effect on reproduction. No information is available on whether they cause cancer and/or mutations.		
NITROGEN & WATER	No significant acute toxicological data identified in literature search.		
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

 \mathbf{X} – Data available but does not fill the criteria for classification

S - Data Not Available to make classification

CMR STATUS

SKIN	dimethyl glutarate	Australia Exposure Standards - Skin	Sk
	dimethyl adipate	Australia Exposure Standards - Skin	Sk

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Comparison of available data for ecotoxicity shows dibasic methyl esters (DBEs) are "slightly" to "non-toxic" to fish and aquatic invertebrates. LC50 or EC50 values for fish, invertebrates, and algae range from: 50-100 mg/L to 25.7 mg/L, 497 mg/L to 3,3 17 mg/L, and 4.4 mg/L to 11.9 mg/L, respectively. These values appear to be correlated with a gradient in solubility for the three, dimethyl esters and inversely correlated with the molecular weights.

For the Alkali Metal Cyanides:

Atmospheric Fate: It is unknown if atmospheric photolysis is an important fate process for alkali metal cyanides.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dimethyl glutarate	LOW	LOW

dimethyl adipate	LOW	LOW
dimethyl succinate	LOW	LOW
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
dimethyl glutarate	LOW (LogKOW = 0.62)
dimethyl adipate	LOW (LogKOW = 1.03)
dimethyl succinate	LOW (LogKOW = 0.35)
water	LOW (LogKOW = -1.38)

Mobility in soil

Ingredient	Mobility
dimethyl glutarate	LOW (KOC = 10)
dimethyl adipate	LOW (KOC = 10.9)
dimethyl succinate	LOW (KOC = 10)
water	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods		
Product / Packaging disposal	 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 sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. 	

SECTION 14 TRANSPORT INFORMATION

Labels Required

	RENT FEATURE
Marine Pollutant	NO
HAZCHEM	2YE
Land transport (ADG)	

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UN number	1950
Packing group	Not Applicable
UN proper shipping name	AEROSOLS
Environmental hazard	No relevant data
Transport hazard class(es)	Class 2.2 Subrisk Not Applicable
Special precautions for user	Special provisions63 190 277 327 344Limited quantitySee SP 277

Air transport (ICAO-IATA / DGR)

UN number	1950
Packing group	Not Applicable
UN proper shipping name	Aerosols, non-flammable (containing biological products or a medicinal preparation which will be deteriorated by a heat test); Aerosols, non-flammable
Environmental hazard	No relevant data

	ICAO/IATA Class	2.2		
Transport hazard	ICAO / IATA Subrisk	Not Applicable		
01000(00)	ERG Code	2L		
	Special provisions		A98A145A167A802	
	Cargo Only Packing Instructions		204; 203	
	Cargo Only Maximum Qty / Pack		150 kg	
Special precautions for user	Passenger and Cargo Packing Instructions		204; 203	
	Passenger and Cargo Maximum Qty / Pack		75 kg	
	Passenger and Cargo Limited Quantity Packing Instructions		Y204; Y203	
	Passenger and Cargo	Limited Maximum Qty / Pack	30 kg G	
			1	

Sea transport (IMDG-Code / GGVSee)

UN number	1950
Packing group	Not Applicable
UN proper shipping name	AEROSOLS
Environmental hazard	Not Applicable
Transport hazard class(es)	IMDG Class 2.2 IMDG Subrisk Not Applicable
Special precautions for user	EMS NumberF-D , S-USpecial provisions63 190 277 327 344 959Limited QuantitiesSee SP277

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

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	dimethyl glutarate	Y
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	dimethyl adipate	X
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	dimethyl succinate	Y

SECTION 15 REGULATORY INFORMATION

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

dimethyl glutarate(1119-40-0) is found on the following regulatory lists	"Australia Exposure Standards", "Australia Hazardous Substances Information System - Consolidated Lists"
dimethyl adipate(627-93-0) is found on the following regulatory lists	"Australia Exposure Standards", "Australia Hazardous Substances Information System - Consolidated Lists"
white mineral oil (petroleum)(8042-47-5)	"Australia Exposure Standards","International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs","Australia Hazardous Substances Information System - Consolidated Lists"

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is found on the following regulatory	
lists	
dimethyl succinate(106-65-0) is found on the following regulatory lists	"Not Applicable"
nitrogen(7727-37-9.) is found on the following regulatory lists	"Australia Exposure Standards"
water(7732-18-5) is found on the following regulatory lists	"Not Applicable"
National Inventory	Status
National Inventory Australia - AICS	Status Y
National Inventory Australia - AICS Canada - DSL	Status Y Y
National InventoryAustralia - AICSCanada - DSLChina - IECSC	Status Y Y Y
National InventoryAustralia - AICSCanada - DSLChina - IECSCEurope - EINEC /ELINCS / NLP	Status Y Y Y Y Y
National InventoryAustralia - AICSCanada - DSLChina - IECSCEurope - EINEC /ELINCS / NLPJapan - ENCS	Status Y Y Y Y N (nitrogen; water; white mineral oil (petroleum))
National InventoryAustralia - AICSCanada - DSLChina - IECSCEurope - EINEC /ELINCS / NLPJapan - ENCSKorea - KECI	Status Y Y Y Y Y N (nitrogen; water; white mineral oil (petroleum)) Y
National InventoryAustralia - AICSCanada - DSLChina - IECSCEurope - EINEC /ELINCS / NLPJapan - ENCSKorea - KECINew Zealand - NZIOC	Status Y Y Y Y N (nitrogen; water; white mineral oil (petroleum)) Y Y
National InventoryAustralia - AICSCanada - DSLChina - IECSCEurope - EINEC /ELINCS / NLPJapan - ENCSKorea - KECINew Zealand - NZIOCPhilippines - PICCS	Status Y Y Y Y N (nitrogen; water; white mineral oil (petroleum)) Y Y N (nitrogen)
National InventoryAustralia - AICSCanada - DSLChina - IECSCEurope - EINEC /ELINCS / NLPJapan - ENCSKorea - KECINew Zealand - NZIOCPhilippines - PICCSUSA - TSCA	Status Y Y Y Y N (nitrogen; water; white mineral oil (petroleum)) Y Y N (nitrogen) Y

SECTION 16 OTHER INFORMATION

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.

A list of reference resources used to assist the committee may be found at: <u>www.chemwatch.net</u>

The (M)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.

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