

Thomas Warburton

Chemwatch: 4744-40 Version No: 4.1.1 Safety Data Sheet according to WHS and ADG requirements Issue Date: **17/12/2018** Print Date: **17/12/2018** S.GHS.AUS.EN

Chemwatch Hazard Alert Code: 4

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

Product Identifier

Product name	Atorn Adhesive Lubricant	
Synonyms	nufacturer's Code: 1928499000	
Proper shipping name	AEROSOLS	
Other means of identification	Not Available	

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

Relevant identified uses	Application is by spray atomisation from a hand held aerosol pack
	High pressure-resistant adhesive lubricant.

Details of the supplier of the safety data sheet

Registered company name	Thomas Warburton	
Address	481 Frankston Dandenong Road Dandenong South VIC 3175 Australia	
Telephone	+61 3 9574 3400	
Fax	+61 3 9574 3456	
Website	Not Available	
Email	Not Available	

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	+61 3 9574 3400
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable		
Classification ^[1]	Aerosols Category 1, Skin Corrosion/Irritation Category 2, Specific target organ toxicity - single exposure Category 3 (narcotic effects)		
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	DANGER

Hazard statement(s)

H222	xtremely flammable aerosol.	
H315	auses skin irritation.	
H336	May cause drowsiness or dizziness.	
AUH044	Risk of explosion if heated under confinement.	

Precautionary statement(s) Prevention

P210	eep away from heat/sparks/open flames/hot surfaces No smoking.	
P211	Do not spray on an open flame or other ignition source.	
P251	Pressurized container: Do not pierce or burn, even after use.	
P271	Use only outdoors or in a well-ventilated area.	

Precautionary statement(s) Response

P362	Take off contaminated clothing and wash before reuse.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		

Precautionary statement(s) Storage

P405	Store locked up.	
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

Precautionary statement(s) Disposal

P501

Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
107-83-5	30-40	2-methylpentane
110-54-3	1-<5	<u>n-hexane</u>
4259-15-8	0.1-<1	zinc bis(2-ethylhexyl)dithiophosphate
68411-46-1	0.1-<1	octylated diphenylamines
Not Available	NotSpec.	mineral oil
68476-85-7.	NotSpec.	hydrocarbon propellant

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 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.
 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.
 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.
 Not considered a normal route of entry. 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.

Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
 Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

SMALL FIRE:

Water spray, dry chemical or CO2

LARGE FIRE:

Water spray or fog.

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. 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	 Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions. May emit clouds of acrid smoke
HAZCHEM	Not Applicable
	Continued

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	 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	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. 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.
Other information	 Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed.

Conditions for safe storage, including any incompatibilities

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

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	2-methylpentane	Hexane, other isomers	500 ppm / 1760 mg/m3	3500 mg/m3 / 1000 ppm	Not Available	Not Available
Australia Exposure Standards	n-hexane	Hexane (n-Hexane)	20 ppm / 72 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	hydrocarbon propellant	LPG (liquified petroleum gas)	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
2-methylpentane	Methylpentane, 2-; (Isohexane)	1,000 ppm	11000 ppm	66000 ppm
n-hexane	Hexane	260 ppm	Not Available	Not Available
hydrocarbon propellant	Liquified petroleum gas; (L.P.G.)	65,000 ppm	2.30E+05 ppm	4.00E+05 ppm
Ingredient	Original IDLH	Revi	sed IDLH	

2-methylpentane	Not Available	Not Available
n-hexane	1,100 ppm	Not Available
zinc bis(2- ethylhexyl)dithiophosphate	Not Available	Not Available
octylated diphenylamines	Not Available	Not Available
hydrocarbon propellant	2,000 ppm	Not Available

Exposure controls

Appropriate engineering controls	CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear 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	 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. and safety footwear. 			
Body protection	See Other protection below			
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Skin cleansing cream. • Eyewash unit.			

Respiratory protection

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Supplied as an aerosol pack. Contents under PRESSURE . Contains highly flammable hydrocarbon propellant. Yellow, brown liquid spray with a characteristic odour; does not mix with water.		
Physical state	Liquid	Relative density (Water = 1)	0.65-0.66
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
nitial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable

Flash point (°C)	-81 (propellant)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	10.0	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.1	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	<8 bar @ 50C	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	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 high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.
Ingestion	Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments Ingestion may result in nausea, pain, vomiting. Vomit entering the lungs by aspiration may cause potentially lethal chemical pneumonitis.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this material
Eye	Spray mist may produce discomfort The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
Chronic	Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice. WARNING: Aerosol containers may present pressure related hazards.

	TOXICITY	IRRITATION
Atorn Adhesive Lubricant	Not Available	Not Available
0 methoda enterne	тохісіту	IRRITATION
2-methylpentane	Not Available	Not Available
	тохісіту	IRRITATION
	Dermal (rabbit) LD50: =3000 mg/kg ^[2]	Eye(rabbit): 10 mg - mild
n-hexane	Inhalation (rat) LC50: 47945.232 mg/l/4H ^[2]	
	Oral (rat) LD50: 15840 mg/kg ^[2]	

	ΤΟΧΙCΙΤΥ	IRRITATION	
zinc bis(2- ethylhexyl)dithiophosphate	Dermal (rabbit) LD50: >5000 mg/kg ^[2]	Not Available	
etnymexyrjatmophosphate	Oral (rat) LD50: >2000-5000 mg/kg ^[1]		
	ΤΟΧΙCΙΤΥ	IRRITATION	
octylated diphenylamines	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): Non Irritant	
	Oral (rat) LD50: >2000 mg/kg ^[2]	Skin (rabbit): Non Irritant [Bay]	
	тохісіту	IRRITATION	
hydrocarbon propellant	Not Available	Not Available	
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances 		

N-HEXANE	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
ZINC BIS(2- ETHYLHEXYL)DITHIOPHOSPHATE	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Dithiophosphate alkyl esters is corrosive and toxic to the tissues on skin or oral exposure depending on its concentration. Symptoms included diarrhoea, skin and gastrointestinal irritation, lethargy, reduced food intake, staining about the nose and eye; occasionally, there was drooping of the eyelid, hair standing up, inco-ordination and salivation. Toxicity is reduced following inhalation (due to vapour pressure and high viscosity). It may produce reproductive, developmental and genetic toxicity on experimental animals, but no substantive data is available to establish effect on humans.
OCTYLATED DIPHENYLAMINES	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. Heating of substituted diphenylamines may generate vapours which can irritate the eyes and airways. Drying of skin and mucous membranes leading to irritation may occur with prolonged or repeated contact. Overexposure may cause skin and airway irritation with dizziness and flu-like symptoms. All show a slight to very low order of toxicity following oral or topical administration. Potential sensitiser producing contact allergies.
HYDROCARBON PROPELLANT	inhalation of the gas
2-METHYLPENTANE & ZINC BIS(2- ETHYLHEXYL)DITHIOPHOSPHATE & HYDROCARBON PROPELLANT	No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	*
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

Data either not available or does not fill the criteria for classification
 Data available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Atorn Adhesive Lubricant	ENDPOINT TEST DURATION (HR)	SPECIES	VALUE SOURCE
	Not Not Available	Not Available	Not Not Available Available
2-methylpentane	ENDPOINT TEST DURATION (HR)	SPECIES	VALUE SOURCE
	LC50 96	Fish	1.915mg/L 3
	EC50 96	Algae or other aquatic plants	3.635mg/L 3

ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
LC50	96	Fish	1.674mg/L	3
EC50	48	Crustacea	21.85mg/L	2
EC50	96	Algae or other aquatic plants	3.089mg/L	3
ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
LC50	96	Fish	4.4mg/L	2
EC50	48	Crustacea	=11.5mg/L	1
EC50	96	Algae or other aquatic plants	=1-5mg/L	1
NOEC	504	Crustacea	0.4mg/L	2
ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
LC50	96	Fish	>100mg/L	2
EC50	48	Crustacea	>0.34mg/L	2
EC50	72	Algae or other aquatic plants	>0.008mg/L	2
EL10	504	Crustacea	1.69mg/L	2
NOEC	72	Algae or other aquatic plants	0.008mg/L	2
ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
LC50	96	Fish	24.11mg/L	2
EC50	96	Algae or other aquatic plants	7.71mg/L	2
LC50	96	Fish	24.11mg/L	2
EC50	96	Algae or other aquatic plants	7.71mg/L	2
	EC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50	EC50 48 EC50 96 ENDPOINT TEST DURATION (HR) LC50 96 EC50 48 EC50 48 EC50 96 NOEC 504 ENDPOINT TEST DURATION (HR) LC50 96 EC50 48 EC50 96 EC50 48 EC50 72 EL10 504 NOEC 72 ENDPOINT TEST DURATION (HR) LC50 96 EC50 96 EC50 96 EC50 96 EC50 96	EC5048CrustaceaEC5096Algae or other aquatic plantsENDPOINTTEST DURATION (HR)SPECIESLC5096FishEC5048CrustaceaEC5096Algae or other aquatic plantsNOEC504CrustaceaEC5096FishEC5096FishEC5096Algae or other aquatic plantsNOEC504CrustaceaEC5096FishEC5096FishEC5072Algae or other aquatic plantsEL10504CrustaceaNOEC72Algae or other aquatic plantsEL10504CrustaceaNOEC72Algae or other aquatic plantsEL10504FishEC5096FishLC5096FishLC5096FishEC5096FishEC5096Fish	EC5048Crustacea21.85mg/LEC5096Algae or other aquatic plants3.089mg/LENDPOINTTEST DURATION (HR)SPECIESVALUELC5096Fish4.4mg/LEC5048Crustacea=11.5mg/LEC5096Algae or other aquatic plants=1-5mg/LEC5096Crustacea0.4mg/LEC5096Crustacea0.4mg/LEC5096Fish>100mg/LEC5096Fish>100mg/LENDPOINTTEST DURATION (HR)SPECIESVALUELC5096Fish>100mg/LEC5072Algae or other aquatic plants>0.08mg/LEL10504Crustacea1.69mg/LNOEC72Algae or other aquatic plants0.008mg/LENDPOINTTEST DURATION (HR)SPECIESVALUELC5096Fish24.11mg/LLC5096Fish24.11mg/LLC5096Fish24.11mg/L

DO NOT discharge into sewer or waterways.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. WGK: Classification in accordance with German Water Resources Act. |Water hazard class 1: slightly hazardous to water.

Bioconcentration Data 8. Vendor Data

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2-methylpentane	LOW	LOW
n-hexane	LOW	LOW
octylated diphenylamines	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
2-methylpentane	LOW (LogKOW = 3.2145)
n-hexane	MEDIUM (LogKOW = 3.9)
octylated diphenylamines	LOW (BCF = 5.5)

Mobility in soil

Ingredient	Mobility
2-methylpentane	LOW (KOC = 124.9)
n-hexane	LOW (KOC = 149)
octylated diphenylamines	LOW (KOC = 28640000)

SECTION 13 DISPOSAL CONSIDERATIONS

Product / Packaging	 Consult State Land Waste Management Authority for disposal. Discharge contents of damaged aerosol cans at an approved site.
disposal	 Allow small quantities to evaporate. DO NOT incinerate or puncture aerosol cans.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
Marine Pollutant	Not Applicable
HAZCHEM	Not Applicable

Land transport (ADG)

UN number	1950	
UN proper shipping name	AEROSOLS	
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable	
Packing group	Not Applicable	
Environmental hazard	Not Applicable	
Special precautions for user	Special provisions63 190 277 327 344 381Limited quantity1000ml	

Air transport (ICAO-IATA / DGR)

UN number	1950			
UN proper shipping name	Aerosols, flammable			
Transport hazard class(es)	ICAO/IATA Class 2.1			
	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	e 10L		
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions		A145 A167 A802	
	Cargo Only Packing Instructions		203	
	Cargo Only Maximum Qty / Pack		150 kg	
	Passenger and Cargo Packing Instructions		203	
	Passenger and Cargo Maximum Qty / Pack		75 kg	
	Passenger and Cargo Limited Quantity Packing Instructions		Y203	
	Passenger and Cargo Limited Maximum Qty / Pack		30 kg G	

Sea transport (IMDG-Code / GGVSee)

UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	IMDG Class 2.1 IMDG Subrisk Not Applicable

Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user		F-D, S-U	
	Special provisions	63 190 277 327 344 381 959	
	Limited Quantities	1000ml	

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

2-METHYLPENTANE(107-83-5) IS FOUND ON THE FOLLOWING REGULATO	RY LISTS
Australia Exposure Standards	Australia Standard for the Uniform Scheduling of Medicines and Poisons
Australia Hazardous Chemical Information System (HCIS) - Hazardous	(SUSMP) - Appendix E (Part 2)
Chemicals	Australia Standard for the Uniform Scheduling of Medicines and Poisons
Australia Inventory of Chemical Substances (AICS)	(SUSMP) - Schedule 5
N-HEXANE(110-54-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Standard for the Uniform Scheduling of Medicines and Poisons
Australia Hazardous Chemical Information System (HCIS) - Hazardous	(SUSMP) - Appendix E (Part 2)
Chemicals	Australia Standard for the Uniform Scheduling of Medicines and Poisons
Australia Inventory of Chemical Substances (AICS)	(SUSMP) - Schedule 5
ZINC BIS(2-ETHYLHEXYL)DITHIOPHOSPHATE(4259-15-8) IS FOUND ON TH	IE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

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

OCTYLATED DIPHENYLAMINES(68411-46-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

HYDROCARBON PROPELLANT(68476-85-7.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards	Australia Standard for the Uniform Scheduling of Medicines and Poisons
Australia Hazardous Chemical Information System (HCIS) - Hazardous	(SUSMP) - Appendix E (Part 2)
Chemicals	Australia Standard for the Uniform Scheduling of Medicines and Poisons
Australia Inventory of Chemical Substances (AICS)	(SUSMP) - Schedule 5

National Inventory Status

National Inventory	Status
Australia - AICS	No (mineral oil) Non-disclosed ingredients
Canada - DSL	No (mineral oil) Non-disclosed ingredients
Canada - NDSL	No (octylated diphenylamines; zinc bis(2-ethylhexyl)dithiophosphate; hydrocarbon propellant; n-hexane; 2-methylpentane; mineral oil) Non-disclosed ingredients
China - IECSC	No (mineral oil) Non-disclosed ingredients
Europe - EINEC / ELINCS / NLP	No (mineral oil) Non-disclosed ingredients
Japan - ENCS	No (mineral oil) Non-disclosed ingredients
Korea - KECI	No (mineral oil) Non-disclosed ingredients
New Zealand - NZIoC	No (mineral oil) Non-disclosed ingredients
Philippines - PICCS	No (mineral oil) Non-disclosed ingredients
USA - TSCA	No (mineral oil) Non-disclosed ingredients
Legend:	Yes = All ingredients are on the inventory No = 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

Initial Date 01/11/2009

Other information

Ingredients with multiple cas numbers

Name	CAS No
octylated diphenylamines	68411-46-1, 37338-62-8, 101-67-7
hydrocarbon propellant	68476-85-7., 68476-86-8.

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 This document is copyright.

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