

Dy-Mark

Chemwatch: **42-9969** Version No: **4.1.1.1** Material Safety Data Sheet according to NOHSC and ADG requirements nemwatch Hazard Alert Code: 4 Issue Date: 29/01/2015 Print Date: 30/01/2015

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

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

#### **Product Identifier**

Product name	Dy-Mark 42034003 Protech Heavy Duty Degreaser 400g	
Chemical Name	Not Applicable	
Synonyms	42034003	
Proper shipping name	AEROSOLS	
Chemical formula	Not Applicable	
Other means of identification	Not Available	
CAS number	Not Applicable	

# 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 Use according to manufacturer's directions.
--------------------------	--

### Details of the manufacturer/importer

Registered company name	Dy-Mark
Address	89 Formation Street Wacol 4076 QLD Australia
Telephone	+61 7 3271 2222
Fax	+61 7 3271 2751
Website	Not Available
Email	info@dymark.com.au

#### Emergency telephone number

• • •	
Association / Organisation	Not Available
Emergency telephone numbers	+61 403 186 708
Other emergency telephone numbers	+61 403 186 708

### **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	
	R36/37/38	Irritating to eyes, respiratory system and skin.
Risk Phrases <sup>[1]</sup>	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R66	Repeated exposure may cause skin dryness and cracking.
	R44	Risk of explosion if heated under confinement.
	R67	Vapours may cause drowsiness and dizziness.
	R12	Extremely flammable.
	R19	May form explosive peroxides.
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	
GHS Classification <sup>[1]</sup>		sol Category 1, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, STOT - SE (Resp. Irr.) Category 3, STOT - SE (Narcosis) e Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2
Legend:	1. Classified by C	hernwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI



# SIGNAL WORD DANGER

### Hazard statement(s)

H222	Extremely flammable aerosol
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
AUH019	May form explosive peroxides
AUH044	Risk of explosion if heated under confinement
AUH066	Repeated exposure may cause skin dryness and cracking

# Supplementary statement(s)

Not Applicable

# CLP classification (additional)

Not Applicable

# Precautionary statement(s) Prevention

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

#### Precautionary statement(s) Response

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	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P391	Collect spillage.	

# 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 to authorised chemical landfill or if organic to high temperature incineration

# Label elements



#### Relevant risk statements are found in section 2

Indication(s) of danger F+, N, Xi

# SAFETY ADVICE

SALETTADVICE		
S09	Keep container in a well ventilated place.	
S15	Keep away from heat.	
S16	Keep away from sources of ignition. No smoking.	
S18	Handle and open container with care.	
S23	Do not breathe gas/fumes/vapour/spray.	
S24	Avoid contact with skin.	
S25	Avoid contact with eyes.	
S26	In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.	
S29	Do not empty into drains.	
\$33	Take precautionary measures against static discharges.	
		Continued

S35	This material and its container must be disposed of in a safe way.
\$37	Wear suitable gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S39	Wear eye/face protection.
S40	To clean the floor and all objects contaminated by this material, use water and detergent.
S41	In case of fire and/or explosion, DO NOT BREATHE FUMES.
S43	In case of fire use
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well ventilated areas.
S56	Dispose of this material and its container at hazardous or special waste collection point.
S57	Use appropriate container to avoid environmental contamination.
S61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S64	If swallowed, rinse mouth with water (only if the person is conscious).

#### Other hazards

	Possible respiratory and skin sensitizer*.	
	Cumulative effects may result following exposure*.	
	May affect fertility*.	
	May be harmful to the foetus/ embryo*.	
	Skin contact may produce health damage*.	

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
64742-94-5	50-65	solvent naphtha petroleum, heavy aromatic
109-87-5	10-20	methylal
67784-80-9	10-20	alkyl C14-C24 methyl esters
Not Available	5-7	surfactant
64-17-5	1-2	ethanol
124-38-9	5-7	carbon dioxide

### SECTION 4 FIRST AID MEASURES

#### Description of first aid measures

Eye Contact	If aerosols come in contact with the eyes: <ul> <li>Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.</li> <li>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.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If solids or aerosol mists are deposited upon the skin: <ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Remove any adhering solids with industrial skin cleansing cream.</li> <li>DO NOT use solvents.</li> <li>Seek medical attention in the event of irritation.</li> </ul>
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	<ul> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>Not considered a normal route of entry.</li> <li>If conscious, give water to drink.</li> </ul>

# 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.

For acute or short-term repeated exposures to formaldehyde:

#### INGESTION:

- Patients present early with severe corrosion of the gastro-intestinal tract and systemic effects.
- Inflammation and ulceration may progress to strictures.
- Severe acidosis results from rapid conversion of formaldehyde to formic acid. Coma, hypotension, renal failure and apnoea complicate ingestion.
- Decontaminate by dilution with milk or water containing ammonium acetate; vomiting should be induced. Follow with gastric lavage using a weak ammonia solution (converts formaldehyde to relatively inert pentamethylenetetramine)

• Gastric lavage is warranted only in first 15 minutes following ingestion.

SKIN:

Formaldehyde can combine with epidermal protein to produce a hapten-protein couple capable of sensitising T-lymphocytes. Subsequent exposures cause a type IV hypersensitivity reaction (i.e allergic contact dermatitis). [Ellenhorn & Barceloux: Medical Toxicology]

# SECTION 5 FIREFIGHTING MEASURES

### Extinguishing media

SMALL FIRE:
Water spray, dry chemical or CO2
LARGE FIRE:
<ul> <li>Water spray or fog.</li> </ul>

### 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	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Severe explosion hazard, in the form of vapour, when exposed to flame or spark.</li> </ul>	

### SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

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

# SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

Safe handling	<ul> <li>The substance accumulates peroxides which may become hazardous only if it evaporates or is distilled or otherwise treated to concentrate the peroxides. The substance may concentrate around the container opening for example.</li> <li>Purchases of peroxidisable chemicals should be restricted to ensure that the chemical is used completely before it can become peroxidised.</li> <li>A responsible person should maintain an inventory of peroxidisable chemicals or annotate the general chemical inventory to indicate which chemicals are subject to peroxidation.</li> </ul>
Other information	<ul> <li>Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li> <li>Store in original containers in approved flammable liquid storage area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> </ul>

#### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>
Storage incompatibility	<ul> <li>Avoid reaction with oxidising agents</li> <li>Avoid strong acids, bases.</li> <li>Presence of heat source and direct sunlight</li> </ul>



X — Must not be stored together

May be stored together with specific preventions
 May be stored together

# 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
Australia Exposure Standards	methylal	Methylal	3110 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available
Australia Exposure Standards	ethanol	Ethyl alcohol	1880 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available
Australia Exposure Standards	carbon dioxide	Carbon dioxide / Carbon dioxide in coal mines	9000 mg/m3 / 22500 mg/m3 / 5000 ppm / 12500 ppm	54000 mg/m3 / 30000 ppm	Not Available	Not Available

### EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
solvent naphtha petroleum, heavy aromatic	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)		3.1 ppm	34 ppm	410 ppm
methylal	Methylal; (Dimethoxymethane)		1,000 ppm	1000 ppm	15000 ppm
ethanol	Ethyl alcohol; (Ethanol)		Not Available	Not Available	Not Available
carbon dioxide	Carbon dioxide		30,000 ppm	30000 ppm	50000 ppm
Ingredient	Original IDLH Revised IDLH				
solvent naphtha petroleum,	Nat Availabla				

solvent naphtha petroleum, heavy aromatic	Not Available	Not Available
methylal	15,000 [LEL] ppm	2,200 [LEL] ppm
alkyl C14-C24 methyl esters	Not Available	Not Available
surfactant	Not Available	Not Available
ethanol	15,000 ppm	3,300 [LEL] ppm
carbon dioxide	50,000 ppm	40,000 ppm

# Exposure controls

zard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly / be independent of worker interactions to provide this high level of protection. / way a job activity or process is done to reduce the risk. // which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and	
<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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.</li> </ul>	
Jling small quantities. weight rubber gloves. 2. and safety footwear.	
No special equipment needed when handling small quantities. <b>OTHERWISE:</b> • Overalls. • Skin cleansing cream. • Eyewash unit.	

### **Respiratory protection**

Type AE-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI

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:

Dy-Mark 42034003 Protech Heavy Duty Degreaser 400g

Material	СРІ
BUTYL	А
NEOPRENE	A
NITRILE	A
NITRILE+PVC	A
PE/EVAL/PE	A
PVC	В
NATURAL RUBBER	С
NATURAL+NEOPRENE	С

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: 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.

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance Light yellow flammable liquid with a solvent odour; not miscible with water.

Physical state	Liquid	Relative density (Water = 1)	0.75-0.78
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	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)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	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)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution(1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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

Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.

#### Continued...

#### Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	AE-AUS / Class1 P2	-
up to 50	1000	-	AE-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	AE-2 P2
up to 100	10000	-	AE-3 P2
100+			Airline**

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand

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

	1	
	The material can cause respiratory irritati Inhalation of vapours may cause drowsing	on in some persons. The body's response to such irritation can cause further lung damage. ess and dizziness.
Ingestion	damage to the health of the individual. Not normally a hazard due to physical for Considered an unlikely route of entry in co Ingestion of petroleum hydrocarbons can	ommercial/industrial environments irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. hroat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing,
Skin Contact	This material can cause inflammation of t The material may accentuate any pre-exi	sting dermatitis condition king, flaking or drying following normal handling and use. d not be exposed to this material
Eye		I damage in some persons. Not considered to be a risk because of the extreme volatility of the gas. arbons can be painful, and the corneal epithelium may be temporarily damaged. Aromatic species can cause irritatio
Chronic	Prolonged or repeated skin contact may Substance accumulation, in the human bo	s may result in disease of the airways involving difficult breathing and related systemic problems. cause drying with cracking, irritation and possible dermatitis following. dy, may occur and may cause some concern following repeated or long-term occupational exposure. ing that exposure to this material may result in reduced fertility.
Der Marila (2024002 Drata als	ΤΟΧΙCΙΤΥ	IRRITATION
Dy-Mark 42034003 Protech Heavy Duty Degreaser 400g	Not Available	Not Available
	TOXICITY	IRRITATION
solvent naphtha petroleum,	Dermal (rabbit) LD50: >3160 mg/kg	[PETROFIN]
heavy aromatic	Oral (rat) LD50: 3200 mg/kg	Eye (rabbit): Irritating
	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
mothylal	Inhalation (rat) LC50: 15000 ppm	Nil reported
methylal	Inhalation (rat) LC50: 3000 ppm/4h	
	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
alkyl C14-C24 methyl esters	Oral (rat) LD50: >2000 mg/kg	
	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Inhalation (rat) LC50: 20,000 ppm/10h	Eye (rabbit): 500 mg SEVERE
ethanol	Inhalation (rat) LC50: 64000 ppm/4h	Eye (rabbit):100mg/24hr-moderate
	Oral (rat) LD50: 7060 mg/kg	Skin (rabbit):20 mg/24hr-moderate
		Skin (rabbit):400 mg (open)-mild
	Not Available	Not Available
carbon dioxide	TOXICITY	IRRITATION

\* Value obtained from manufacturer's msds

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances

SOLVENT NAPHTHA PETROLEUM, HEAVY AROMATIC	for petroleum: This product contains benzene which is known to cause acute myeloid leukaemia and n-hexane which has been shown to metabolize to compounds which are neuropathic. This product contains toluene. There are indications from animal studies that prolonged exposure to high concentrations of toluene may lead to hearing loss. This product contains ethyl benzene and naphthalene from which there is evidence of turnours in rodents <b>Carcinogenicity:</b> Inhalation exposure to mice causes liver turnours, which are not considered relevant to humans.
ETHANOL	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.
CARBON DIOXIDE	- pulmonary effects IDLH: 50,000 ppm

Dy-Mark 42034003 Protech Heavy Duty Degreaser 400g, METHYLAL	Asthma-like symptoms may continue for months or e as reactive airways dysfunction syndrome (RADS) diagnosis of RADS include the absence of precedin within minutes to hours of a documented exposure t bronchial hyperreactivity on methacholine challenge in the criteria for diagnosis of RADS.
Acute Toxicity	$\otimes$
Skin Irritation/Corrosion	×
Serious Eye Damage/Irritation	*
Respiratory or Skin sensitisation	0
Mutagenicity	0

even years after exposure to the material ceases. This may be due to a non-allergenic condition known which can occur following exposure to high levels of highly irritating compound. Key criteria for the g respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included

Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	×	Reproductivity	0
Serious Eye Damage/Irritation	<b>*</b>	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0
Legend: V - Data required to make classification available			

- 💢 Data available but does not fill the criteria for classification
- 🚫 Data Not Available to make classification

#### **CMR STATUS**

REPROTOXIN

ILO Chemicals in the electronics industry that have toxic effects on reproduction carbon dioxide

### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
methylal	LOW	LOW
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
carbon dioxide	LOW	LOW

#### **Bioaccumulative potential**

•	
Ingredient	Bioaccumulation
solvent naphtha petroleum, heavy aromatic	LOW (BCF = 159)
methylal	LOW (LogKOW = 0)
ethanol	LOW (LogKOW = -0.31)
carbon dioxide	LOW (LogKOW = 0.83)

#### Mobility in soil

•	
Ingredient	Mobility
methylal	HIGH (KOC = 1)
ethanol	HIGH (KOC = 1)
carbon dioxide	HIGH (KOC = 1.498)

### SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

- DO NOT allow wash water from cleaning or process equipment to enter drains. Product / Packaging
  - It may be necessary to collect all wash water for treatment before disposal. 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



Marine Pollutant HAZCHEM

2YE

# Land transport (ADG)

UN number	1950
Packing group	Not Applicable
UN proper shipping name	AEROSOLS
Environmental hazard	No relevant data
Transport hazard class(es)	Class     2.1       Subrisk     Not Applicable
Special precautions for user	Special provisions     63 190 277 327 344       Limited quantity     See SP 277

# Air transport (ICAO-IATA / DGR)

UN number	1950		
Packing group	Not Applicable		
UN proper shipping name	Aerosols, flammable		
Environmental hazard	No relevant data		
Transport hazard class(es)	ICAO/IATA Class 2.1 ICAO / IATA Subrisk Not Applicable ERG Code 10L		
	Special provisions	A145A167A802	
	Cargo Only Packing Instructions	203	
	Cargo Only Maximum Qty / Pack	150 kg	
Special precautions for user	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
Packing group	Not Applicable
UN proper shipping name	AEROSOLS
Environmental hazard	No relevant data
Transport hazard class(es)	IMDG Class     2.1       IMDG Subrisk     See SP63
Special precautions for user	EMS NumberF-D , S-USpecial provisions63 190 277 327 344 959Limited QuantitiesSee SP277

# SECTION 15 REGULATORY INFORMATION

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

···· <b>·</b> ,	
solvent naphtha petroleum, heavy aromatic(64742-94-5) is found on the following regulatory lists	"Australia Inventory of Chemical Substances (AICS)", "Australia Hazardous Substances Information System - Consolidated Lists"
methylal(109-87-5) is found on the following regulatory lists	"Australia Exposure Standards", "Australia Inventory of Chemical Substances (AICS)", "Australia Hazardous Substances Information System - Consolidated Lists"
alkyl C14-C24 methyl esters(67784-80-9) is found on the following regulatory lists	"Australia Inventory of Chemical Substances (AICS)"

ethanol(64-17-5) is found on the following regulatory lists

carbon dioxide(124-38-9) is found on the following

"Australia Exposure Standards", "Australia Inventory of Chemical Substances (AICS)", "Australia Hazardous Substances Information System - Consolidated Lists"

found on the following regulatory lists

# 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 Chernwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

#### www.chemwatch.net/references

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.

This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.

