

## Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose

Dy-Mark

Chemwatch: 48-3503 Version No: 3.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Issue Date: 07/08/2015 Print Date: 16/12/2015 Initial Date: Not Available S.GHS.AUS.EN

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

#### **Product Identifier** Product name Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose Not Available Synonyms AEROSOLS Proper shipping name Other means of Not Available identification

#### 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 supplier of the safety data sheet

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 / Organ	isation	Not Available
Emergency tele	ephone imbers	+61 403 186 708
Other emergency tele	ephone imbers	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.

#### CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	4		
Toxicity	1		0 = Minimum
Body Contact	2		1 = Low 2 = Moderate
Reactivity	1		3 = High
Chronic	0		4 = Extreme

Poisons Schedule	Not Applicable	
GHS Classification [1]	Aerosols Category 1, Skin Corrosion/Irritation Category 2, STOT - SE (Narcosis) Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	

#### Label elements

**GHS** label elements





SIGNAL WORD

DANGER

Chemwatch: **48-3503** Page **2** of **10** 

Version No: 3.1.1.1

## Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose

Issue Date: **07/08/2015** Print Date: **16/12/2015** 

## Hazard statement(s)

H222	Extremely flammable aerosol	
H315	Causes skin irritation	
H336	May cause drowsiness or dizziness	
AUH044	Risk of explosion if heated under confinement	
AUH066	Repeated exposure may cause skin dryness and cracking	

## Supplementary statement(s)

Not Applicable

## Precautionary statement(s) Prevention

P210	Keep 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	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	

## Precautionary statement(s) Storage

P405	05 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
64742-48-9.	30-50	naphtha petroleum, heavy, hydrotreated
8006-54-0	10-30	lanolin
68476-85-7.	10-30	LPG (liquefied petroleum gas)
115-10-6	10-30	dimethyl ether

## **SECTION 4 FIRST AID MEASURES**

#### Description of first aid measures

Description of first aid me	asures
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	<ul> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>Not considered a normal route of entry.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</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:

Chemwatch: 48-3503 Page 3 of 10

Version No: 3.1.1.1

## Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose

Issue Date: 07/08/2015 Print Date: 16/12/2015

- ▶ 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.
- Figure 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. [Ellenhom and Barceloux: Medical Toxicology]

Treat symptomatically for lower alkyl ethers:

#### 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.
- A low-stimulus environment must be maintained.
- Monitor and treat, where necessary, for shock.
- Anticipate and treat, where necessary, for seizures.
- 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 droot.

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 gedema.
- Hypotension without signs of hypovolaemia may require vasopressors.
- 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.
- Ethers may produce anion gap acidosis. Hyperventilation and bicarbonate therapy might be indicated.
- Haemodialvsis might be considered in patients with impaired renal function.
- Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

## **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

Fire/Explosion Hazard

▶ 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.
- 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.

### **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.
- ▶ 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.

**Major Spills** 

- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- Clear area of all unprotected personnel and move upwind. Alert Emergency Authority and advise them of the location and nature of hazard.

### Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose

Issue Date: **07/08/2015** Print Date: **16/12/2015** 

- May be violently or explosively reactive.
- Wear full body clothing with breathing apparatus.
- ▶ Remove leaking cylinders to a safe place if possible.
- Release pressure under safe, controlled conditions by opening the valve.

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

#### **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

# Safe handling

The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.

- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- ▶ 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















X — Must not be stored together

May be stored together with specific preventions

May be stored together

## **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	LPG (liquefied petroleum gas)	LPG (liquified petroleum gas)	1800 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available
Australia Exposure Standards	dimethyl ether	Dimethyl ether	760 mg/m3 / 400 ppm	950 mg/m3 / 500 ppm	Not Available	Not Available

#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
naphtha petroleum, heavy, hydrotreated	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	171 ppm	171 ppm	570 ppm
LPG (liquefied petroleum gas)	Liquified petroleum gas; (L.P.G.)	3,000 ppm	3200 ppm	19000 ppm
dimethyl ether	Methyl ether; (Dimethyl ether)	1,000 ppm	1000 ppm	7200 ppm
Lucia Paul	Octobrida I IDI II	B - 2 - 115111		
Ingredient	Original IDLH	Revised IDLH		
naphtha petroleum, heavy, hydrotreated	Not Available	Not Available		
lanolin	Not Available	Not Available		

#### **Exposure controls**

dimethyl ether

LPG (liquefied petroleum gas)

## 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.

2,000 [LEL] ppm

Not Available

The basic types of engineering controls are:

19,000 [LEL] ppm

Not Available

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.

#### Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose

Issue Date: 07/08/2015 Print Date: 16/12/2015

#### 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.

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.
- ▶ Close fitting gas tight goggles

#### **DO NOT** wear contact lenses

► Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available.

#### Skin protection

## See Hand protection below

- No special equipment needed when handling small quantities.
- OTHERWISE:

#### Hands/feet protection

- 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

No special equipment needed when handling small quantities.

#### OTHERWISE:

#### Overalls.

## Other protection

- Skin cleansing cream.
- Evewash unit.
- The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton.
- ▶ Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost.

BRETHERICK: Handbook of Reactive Chemical Hazards.

#### 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 computergenerated selection:

Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose

Material	СРІ
BUTYL	A
NEOPRENE	A

\* 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. -

 $^{\star}$  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.

#### Respiratory protection

Type AX 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 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	Air-line*	AX-2	AX-PAPR-2 ^
up to 20 x ES	-	AX-3	-
20+ x ES	-	Air-line**	-

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

^ - 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	Supplied as an aerosol pack. Contents under <b>PRESSURE</b> . Contains highly flammable hydrocarbon propellant.  Clear flammable liquid with a characteristic odour; not miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	<1
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

Chemwatch: 48-3503 Page 6 of 10

Version No: 3.1.1.1 Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose

			_
Flash point (°C)	-104 (propellant)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	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 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. The body's response to such irritation can cause further lung damage.

Inhalation of toxic gases may cause:

- ▶ Central Nervous System effects including depression, headache, confusion, dizziness, stupor, coma and seizures;
- respiratory: acute lung swellings, shortness of breath, wheezing, rapid breathing, other symptoms and respiratory arrest;
- heart: collapse, irregular heartbeats and cardiac arrest;
- gastrointestinal: irritation, ulcers, nausea and vomiting (may be bloody), and abdominal pain. Inhalation hazard is increased at higher temperatures.

Inhaled

Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor.

Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.

Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure.

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

Accidental ingestion of the material may be damaging to the health of the individual.

Not normally a hazard due to physical form of product.

Considered an unlikely route of entry in commercial/industrial environments Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous.

Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.

## **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.

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.

Alkyl ethers may defat and dehydrate the skin producing dermatoses. Absorption may produce headache, dizziness, and central nervous system depression.

## Eye

There is some evidence to suggest that this material can cause eye irritation and damage in some persons.

Not considered to be a risk because of the extreme volatility of the gas

Direct eye contact with petroleum hydrocarbons can be painful, and the corneal epithelium may be temporarily damaged. Aromatic species can cause irritation and excessive tear secretion

Eye contact with alkyl ethers (vapour or liquid) may produce irritation, redness and tears.

#### Chronic

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

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.

Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin.

Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]

Issue Date: 07/08/2015

Print Date: 16/12/2015

## Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose

Issue Date: 07/08/2015 Print Date: 16/12/2015

Dy-Mark 42034005 Protech			
Lanolin Lubricant General	TOXICITY	IRRITATION	
Purpose	Not Available	Not Available	
	TOXICITY	IRRITATION	
naphtha petroleum, heavy,	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	[CCINFO-Shel	ııj
hydrotreated	Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>	[EXXON]	
		None reported	
	TOXICITY	IRRITATION	
lanolin	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available	
	Oral (rat) LD50: >5000 mg/kg/ <sup>[1]</sup>	1	
	тохісіту	IRRITATION	
	Inhalation (mouse) LC50: >15.6-<17.9 mm/l2 h mm/l2="">[1]	Not Available	
	Inhalation (mouse) LC50: >15.6-<17.9 mm/l2 h mm/l2="">[1]		
	Inhalation (mouse) LC50: 410000 ppm2 h <sup>[1]</sup>		
	Inhalation (mouse) LC50: 410000 ppm2 h <sup>[1]</sup>		
	Inhalation (rat) LC50: >800000 ppm15 min <sup>[1]</sup>		
LDC (limestical materials)	Inhalation (rat) LC50: >800000 ppm15 min <sup>[1]</sup>		
LPG (liquefied petroleum gas)	Inhalation (rat) LC50: 1354.944 mg/L15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: 1355 mg/l15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: 1442.738 mg/L15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: 1442.738 mg/L15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: 1443 mg/l15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: 1443 mg/l15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: 570000 ppm15 min <sup>[1]</sup>		
	iniciation (rat) 2000. 970000 ppinto min	<u> </u>	
dimethyl ether	тохісіту	IRRITATION	
dimethyl ether	TOXICITY Inhalation (rat) LC50: 309 mg/L/4H <sup>[2]</sup>	IRRITATION Nil reported	
dimethyl ether		Nil reported	from manufacturer's SDS. Unless otherwise specified data
·	Inhalation (rat) LC50: 309 mg/L/4H <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxi extracted from RTECS - Register of Toxic Effect of chemical Substances  No significant acute toxicological data identified in literature search. Studies indicate that normal, branched and cyclic paraffins are absorbed finversely proportional to the carbon chain length, with little absorption abov n-paraffins may be absorbed to a greater extent that iso- or cyclo-paraffins The major classes of hydrocarbons have been shown to be well absorbed hydrocarbons are ingested in association with dietary lipids. inhalation of the gas for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains toluene. There are indications from animal studies the This product contains ethyl benzene and naphthalene from which there is easily acute to the standard	Nil reported  city 2.* Value obtained to the mammalian gase C30. With respect to the post of the post	strointestinal tract and that the absorption of n-paraffins is the carbon chain lengths likely to be present in mineral oil, ract in various species. In many cases, the hydrophobic sich has been shown to metabolize to compounds which are to high concentrations of toluene may lead to hearing loss. odents
Legend:  Dy-Mark 42034005 Protech Lanolin Lubricant General	Inhalation (rat) LC50: 309 mg/L/4H <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxi extracted from RTECS - Register of Toxic Effect of chemical Substances  No significant acute toxicological data identified in literature search. Studies indicate that normal, branched and cyclic paraffins are absorbed finversely proportional to the carbon chain length, with little absorption abov n-paraffins may be absorbed to a greater extent that iso- or cyclo-paraffins. The major classes of hydrocarbons have been shown to be well absorbed hydrocarbons are ingested in association with dietary lipids. inhalation of the gas for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains toluene. There are indications from animal studies the standard substances.	Nill reported  city 2.* Value obtained to the mammalian gare e C30. With respect to the came and n-hexane where the control of the control of the came and n-hexane where	strointestinal tract and that the absorption of n-paraffins is the carbon chain lengths likely to be present in mineral oil, ract in various species. In many cases, the hydrophobic nich has been shown to metabolize to compounds which are to high concentrations of toluene may lead to hearing loss. In order to humans.
Legend:  Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose  NAPHTHA PETROLEUM,	Inhalation (rat) LC50: 309 mg/L/4H <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxi extracted from RTECS - Register of Toxic Effect of chemical Substances  No significant acute toxicological data identified in literature search. Studies indicate that normal, branched and cyclic paraffins are absorbed fi inversely proportional to the carbon chain length, with little absorption abov n-paraffins may be absorbed to a greater extent that iso- or cyclo-paraffins. The major classes of hydrocarbons have been shown to be well absorbed hydrocarbons are ingested in association with dietary lipids. inhalation of the gas for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains toluene. There are indications from animal studies the Carcinogenicity: Inhalation exposure to mice causes liver tumours, which for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains toluene. There are indications from animal studies the neuropathic.  This product contains toluene. There are indications from animal studies the neuropathic.	Nill reported  city 2.* Value obtained to the mammalian gare e C30. With respect to the came and n-hexane where the control of the control of the came and n-hexane where	strointestinal tract and that the absorption of n-paraffins is the carbon chain lengths likely to be present in mineral oil, ract in various species. In many cases, the hydrophobic nich has been shown to metabolize to compounds which are to high concentrations of toluene may lead to hearing loss. In order to humans.
Legend:  Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose  NAPHTHA PETROLEUM, HEAVY, HYDROTREATED	Inhalation (rat) LC50: 309 mg/L/4H <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxi extracted from RTECS - Register of Toxic Effect of chemical Substances  No significant acute toxicological data identified in literature search. Studies indicate that normal, branched and cyclic paraffins are absorbed finversely proportional to the carbon chain length, with little absorption aboun-paraffins may be absorbed to a greater extent that iso- or cyclo-paraffins. The major classes of hydrocarbons have been shown to be well absorbed hydrocarbons are ingested in association with dietary lipids. inhalation of the gas for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains toluene. There are indications from animal studies the Carcinogenicity: Inhalation exposure to mice causes liver tumours, which for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains toluene. There are indications from animal studies the This product contains toluene. There are indications from animal studies the This product contains toluene. There are indications from animal studies the This product contains ethyl benzene and naphthalene from which there is a Carcinogenicity: Inhalation exposure to mice causes liver tumours, which	Nill reported  city 2.* Value obtained to the mammalian gare e C30. With respect to the came and n-hexane where the control of the control of the came and n-hexane where	strointestinal tract and that the absorption of n-paraffins is the carbon chain lengths likely to be present in mineral oil, ract in various species. In many cases, the hydrophobic nich has been shown to metabolize to compounds which are to high concentrations of toluene may lead to hearing loss. In order to humans.
Legend:  Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose  NAPHTHA PETROLEUM, HEAVY, HYDROTREATED  LANOLIN LPG (LIQUEFIED	Inhalation (rat) LC50: 309 mg/L/4H <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxi extracted from RTECS - Register of Toxic Effect of chemical Substances  No significant acute toxicological data identified in literature search. Studies indicate that normal, branched and cyclic paraffins are absorbed fi inversely proportional to the carbon chain length, with little absorption aboun-paraffins may be absorbed to a greater extent that iso- or cyclo-paraffins. The major classes of hydrocarbons have been shown to be well absorbed hydrocarbons are ingested in association with dietary lipids. inhalation of the gas for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains toluene. There are indications from animal studies the Carcinogenicity: Inhalation exposure to mice causes liver tumours, which for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains toluene. There are indications from animal studies the This product contains toluene. There are indications from animal studies the This product contains toluene. There are indications from animal studies the This product contains toluene. There are indications from which there is a Carcinogenicity: Inhalation exposure to mice causes liver tumours, which No data of toxicological significance identified in literature search.	Nill reported  city 2.* Value obtained to the mammalian gare e C30. With respect to the came and n-hexane where the control of the control of the came and n-hexane where	strointestinal tract and that the absorption of n-paraffins is the carbon chain lengths likely to be present in mineral oil, ract in various species. In many cases, the hydrophobic nich has been shown to metabolize to compounds which are to high concentrations of toluene may lead to hearing loss. In order to humans.
Legend:  Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose  NAPHTHA PETROLEUM, HEAVY, HYDROTREATED  LANOLIN LPG (LIQUEFIED PETROLEUM GAS)	Inhalation (rat) LC50: 309 mg/L/4H <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxi extracted from RTECS - Register of Toxic Effect of chemical Substances  No significant acute toxicological data identified in literature search. Studies indicate that normal, branched and cyclic paraffins are absorbed fi inversely proportional to the carbon chain length, with little absorption abov n-paraffins may be absorbed to a greater extent that iso- or cyclo-paraffins. The major classes of hydrocarbons have been shown to be well absorbed hydrocarbons are ingested in association with dietary lipids. inhalation of the gas for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains tolluene. There are indications from animal studies the Carcinogenicity: Inhalation exposure to mice causes liver tumours, which for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains tolluene. There are indications from animal studies the Carcinogenicity: Inhalation exposure to mice causes liver tumours, which there is a Carcinogenicity: Inhalation exposure to mice causes liver tumours, which No data of toxicological significance identified in literature search.  No significant acute toxicological data identified in literature search. inhalation of the gas	Nil reported  city 2.* Value obtained to the mammalian gare e C30. With respect to the case and n-hexane where the control of the case of tumours in related are not considered release and n-hexane where the case of tumours in related are not considered release of tumours in related are not considered release.	strointestinal tract and that the absorption of n-paraffins is the carbon chain lengths likely to be present in mineral oil, ract in various species. In many cases, the hydrophobic nich has been shown to metabolize to compounds which are to high concentrations of toluene may lead to hearing loss odents evant to humans.  The has been shown to metabolize to compounds which are to high concentrations of toluene may lead to hearing loss odents evant to humans.
Legend:  Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose  NAPHTHA PETROLEUM, HEAVY, HYDROTREATED  LANOLIN LPG (LIQUEFIED PETROLEUM GAS)  Acute Toxicity  Skin Irritation/Corrosion Serious Eye	Inhalation (rat) LC50: 309 mg/L/4H <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxic extracted from RTECS - Register of Toxic Effect of chemical Substances  No significant acute toxicological data identified in literature search. Studies indicate that normal, branched and cyclic paraffins are absorbed finversely proportional to the carbon chain length, with little absorption aboun-paraffins may be absorbed to a greater extent that iso- or cyclo-paraffins. The major classes of hydrocarbons have been shown to be well absorbed hydrocarbons are ingested in association with dietary lipids. inhalation of the gas for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains tolluene. There are indications from animal studies the Carcinogenicity: Inhalation exposure to mice causes liver tumours, which for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains tolluene. There are indications from animal studies the Carcinogenicity: Inhalation exposure to mice causes liver tumours, which there is a carcinogenicity: Inhalation exposure to mice causes liver tumours, which there is a carcinogenicity: Inhalation exposure to mice causes liver tumours, which was product contains ethyl benzene and naphthalene from which there is a carcinogenicity: Inhalation exposure to mice causes liver tumours, which was date of toxicological significance identified in literature search.  No significant acute toxicological data identified in literature search. inhalation of the gas	Nil reported  city 2.* Value obtained to the mammalian gase C30. With respect to the case of the case	strointestinal tract and that the absorption of n-paraffins is the carbon chain lengths likely to be present in mineral oil, ract in various species. In many cases, the hydrophobic nich has been shown to metabolize to compounds which are to high concentrations of toluene may lead to hearing loss odents evant to humans.  The high concentrations of toluene may lead to hearing loss odents evant to humans.
Legend:  Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose  NAPHTHA PETROLEUM, HEAVY, HYDROTREATED  LANOLIN LPG (LIQUEFIED PETROLEUM GAS)  Acute Toxicity  Skin Irritation/Corrosion	Inhalation (rat) LC50: 309 mg/L/4H <sup>[2]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxic extracted from RTECS - Register of Toxic Effect of chemical Substances  No significant acute toxicological data identified in literature search. Studies indicate that normal, branched and cyclic paraffins are absorbed finversely proportional to the carbon chain length, with little absorption abovin-paraffins may be absorbed to a greater extent that iso- or cyclo-paraffins. The major classes of hydrocarbons have been shown to be well absorbed hydrocarbons are ingested in association with dietary lipids. inhalation of the gas for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains tolluene. There are indications from animal studies the Carcinogenicity: Inhalation exposure to mice causes liver tumours, which for petroleum:  This product contains benzene which is known to cause acute myeloid leuk neuropathic.  This product contains tolluene. There are indications from animal studies the This product contains tolluene. There are indications from animal studies the This product contains tolluene. There are indications from animal studies the Carcinogenicity: Inhalation exposure to mice causes liver tumours, which No data of toxicological significance identified in literature search.  No significant acute toxicological data identified in literature search. inhalation of the gas	Nil reported  city 2.* Value obtained to city 2.* Value obtained to commend the mammalian gase e C30. With respect to commend to commend the gastrointestinal to commend the commend to considered release and n-hexane who can be considered release to considered rele	strointestinal tract and that the absorption of n-paraffins is the carbon chain lengths likely to be present in mineral oil, ract in various species. In many cases, the hydrophobic nich has been shown to metabolize to compounds which are to high concentrations of toluene may lead to hearing loss odents evant to humans.  The has been shown to metabolize to compounds which are to high concentrations of toluene may lead to hearing loss odents evant to humans.

— Data available but does not fill the criteria for classification
 — Data required to make classification available

O – Data Not Available to make classification

Issue Date: **07/08/2015** Print Date: **16/12/2015** 

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
naphtha petroleum, heavy, hydrotreated	EC50	96	Algae or other aquatic plants	64mg/L	2
LPG (liquefied petroleum gas)	LC50	96	Fish	24.11mg/L	2
LPG (liquefied petroleum gas)	EC50	96	Algae or other aquatic plants	7.71mg/L	2
LPG (liquefied petroleum gas)	EC50	96	Algae or other aquatic plants	8.57mg/L	2
LPG (liquefied petroleum gas)	LC50	96	Fish	24.11mg/L	2
LPG (liquefied petroleum gas)	EC50	96	Algae or other aquatic plants	7.71mg/L	2
LPG (liquefied petroleum gas)	EC50	96	Algae or other aquatic plants	8.57mg/L	2
dimethyl ether	NOEC	48	Crustacea	>4000mg/L	1
dimethyl ether	EC50	384	Crustacea	46.027mg/L	3
dimethyl ether	LC50	96	Fish	200.592mg/L	3
dimethyl ether	EC50	48	Crustacea	>4400.0mg/L	2
dimethyl ether	EC50	96	Algae or other aquatic plants	154.917mg/L	2
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the

oxygen transfer between the air and the water

Oils of any kind can cause:

- redrowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility
- ▶ lethal effects on fish by coating gill surfaces, preventing respiration
- asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and
- ▶ adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation. It may cause deep water infestation. For Petroleum Hydrocarbon Gases:

Environmental Fate: Petroleum hydrocarbon gases are primarily produced in petroleum refineries, or in gas plants that separate natural gas and natural gas liquids. This category contains 99 petroleum hydrocarbon gas substances, the majority of which never reach the consumer. Petroleum hydrocarbon gases do not contain inorganic compounds, (e.g. hydrogen sulfide, ammonia, and carbon monoxide), other than asphyxiant gases; the low molecular weight hydrocarbon molecules are primarily responsible for the hazard associated with these gases.

Atmospheric Fate: All components of these gases will evaporate to the air where interaction with hydroxyl radicals is an important fate process

Most ethers are very resistant to hydrolysis, and the rate of cleavage of the carbon-oxygen bond by abiotic processes is expected to be insignificant.

Direct photolysis will not be an important removal process since aliphatic ethers do not absorb light at wavelengths >290 nm

For Propane: Koc 460. log

Kow 2.36.

Henry's Law constant of 7.07x10-1 atm-cu m/mole, derived from its vapour pressure, 7150 mm Hg, and water solubility, 62.4 mg/L. Estimated BCF: 13.1.

DO NOT discharge into sewer or waterways

## Persistence and degradability

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

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
dimethyl ether	LOW (LogKOW = 0.1)

### Mobility in soil

Ingredient	Mobility
dimethyl ether	HIGH (KOC = 1.292)

## **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product / Packaging

disposal

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
- Reuse
- ▶ Recycling

Chemwatch: 48-3503 Page 9 of 10

Version No: 3.1.1.1 Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose

Issue Date: 07/08/2015 Print Date: 16/12/2015

► 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 sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Where in doubt contact the responsible authority.
- ► Consult State Land Waste Management Authority for disposal.
- ▶ Discharge contents of damaged aerosol cans at an approved site.
- ► Allow small quantities to evaporate.
- ► DO NOT incinerate or puncture aerosol cans.

## **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required



Marine Pollutant

2YE

HAZCHEM

## Land transport (ADG)

UN number	1950	
Packing group	Not Applicable	
UN proper shipping name	AEROSOLS	
Environmental hazard	Not Applicable	
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable	
Special precautions for user	Special provisions 63 190 277 327 344  Limited quantity 1000ml	

## Air transport (ICAO-IATA / DGR)

UN number	1950		
Packing group	Not Applicable		
UN proper shipping name	Aerosols, flammable; Aerosols, flammable (engine starting fluid)		
Environmental hazard	Not Applicable		
Transport hazard class(es)	ICAO/IATA Class 2.1  ICAO / IATA Subrisk Not Applicable  ERG Code 10L		
Special precautions for user	Special provisions  Cargo Only Packing Instructions  Cargo Only Maximum Qty / Pack  Passenger and Cargo Packing Instructions  Passenger and Cargo Maximum Qty / Pack	A145A167A802; A1A145A167A802 203 150 kg 203; Forbidden 75 kg; Forbidden	
	Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack	Y203; Forbidden 30 kg G; Forbidden	

## 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 2.1  IMDG Subrisk Not Applicable
Special precautions for user	EMS Number F-D, S-U Special provisions 63 190 277 327 344 959 Limited Quantities 1000ml

## **SECTION 15 REGULATORY INFORMATION**

#### Dy-Mark 42034005 Protech Lanolin Lubricant General Purpose

Issue Date: **07/08/2015**Print Date: **16/12/2015** 

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

#### NAPHTHA PETROLEUM, HEAVY, HYDROTREATED(64742-48-9.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

#### LANOLIN(8006-54-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

#### LPG (LIQUEFIED PETROLEUM GAS)(68476-85-7.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

#### DIMETHYL ETHER(115-10-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (lanolin; dimethyl ether; LPG (liquefied petroleum gas); naphtha petroleum, heavy, hydrotreated)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (lanolin; naphtha petroleum, heavy, hydrotreated)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
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**

## Other information

#### Ingredients with multiple cas numbers

Name	CAS No
naphtha petroleum, heavy, hydrotreated	101795-02-2., 64742-48-9.
lanolin	68424-58-8, 8006-54-0, 8020-84-6
dimethyl ether	115-10-6, 157621-61-9

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:

www.chemwatch.net

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.

#### Definitions and abbreviations

 ${\sf PC-TWA: Permissible \ Concentration-Time \ Weighted \ Average}$ 

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.

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.