

# Dy-Mark

Chemwatch: 42-9975

Version No: 9.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 4

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

### **Product Identifier**

Product name	Dy-Mark Protech Brake & Parts Cleaner Non Chlorinated
Synonyms	Product Code: 42035002
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

Relevant identified uses	Application is by spray atomisation norma na
Nelevant identified uses	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 QLD 4076 Australia
Telephone	+61 7 3327 3004
Fax	+61 7 3327 3009
Website	http://www.dymark.com.au
Email	info@dymark.com.au

### Emergency telephone number

Association / Organisation	Dy-Mark
Emergency telephone numbers	+61 7 3327 3099
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.

Deisens Cabadula	Ned Applicable	
Poisons Schedule	Not Applicable	
Classification <sup>[1]</sup>	Flammable Aerosols Category 1, Eye Irritation Category 2A, Skin Sensitizer Category 1, Respiratory Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Aspiration Hazard Category 1	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Label elements		
Hazard pictogram(s)		
SIGNAL WORD	DANGER	
lazard statement(s)		
H222	Extremely flammable aerosol.	
H319	Causes serious eye irritation.	
H317	May cause an allergic skin reaction.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H336	May cause drowsiness or dizziness.	
Поро	ivialy cause drowsiness of dizziness.	

AUH044	Risk of explosion if heated under confinement.
A011044	Risk of explosion if heated under commenterit.

recautionary 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.
P261	Avoid breathing mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P272	Contaminated work clothing should not be allowed out of the workplace.

# Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P321	Specific treatment (see advice on this label).	
P331	Do NOT induce vomiting.	
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.	
P363	Wash contaminated clothing before reuse.	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
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 or doctor/physician if you feel unwell.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	

# Precautionary statement(s) Storage

P405	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 hazardous or special waste collection point in accordance with any local regulation.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
73513-42-5	73-88	isohexanes
67-64-1	1-5	acetone
64-17-5	1-5	ethanol
124-38-9	<10	carbon dioxide

# **SECTION 4 FIRST AID MEASURES**

### Description of first aid measures

Eye Contact	<ul> <li>If aerosols come in contact with the eyes:</li> <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	<ul> <li>If solids or aerosol mists are deposited upon the skin:</li> <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.

- Avoid giving milk or oils. Avoid giving alcohol. Indestion
  - Not considered a normal route of entry.

F If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

# Indication of any immediate medical attention and special treatment needed

- 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

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
<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> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>		
<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> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition with violent container rupture.</li> <li>Aerosol cans may explode on exposure to naked flames.</li> <li>Rupturing containers may rocket and scatter burning materials.</li> <li>Hazards may not be restricted to pressure effects.</li> <li>May emit acrid, poisonous or corrosive fumes.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products typical of burning organic material.</li> <li>Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.</li> </ul>		
Not Applicable		

### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### Environmental precautions

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<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> <li>Wipe up.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</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>

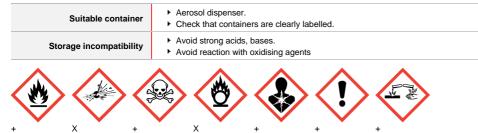
Wear breathing apparatus plus protective gloves.
Your broading appartus proceeding gorout     Prevent, by any means available, spillage from entering drains or water courses
<ul> <li>No smoking, naked lights or ignition sources.</li> </ul>
Increase ventilation.
Stop leak if safe to do so.
<ul> <li>Water spray or fog may be used to disperse / absorb vapour.</li> </ul>
<ul> <li>Absorb or cover spill with sand, earth, inert materials or vermiculite.</li> </ul>
If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated.
Undamaged cans should be gathered and stowed safely.
Collect residues and seal in labelled drums for disposal.
<ul> <li>Clear area of all unprotected personnel and move upwind.</li> </ul>
Alert Emergency Authority and advise them of the location and nature of hazard.
May be violently or explosively reactive.
Wear full body clothing with breathing apparatus.
Prevent by any means available, spillage from entering drains and water-courses.
► Consider evacuation.
Shut off all possible sources of ignition and increase ventilation.
► No smoking or naked lights within area.
Use extreme caution to prevent violent reaction.
► Stop leak only if safe to so do.
► Water spray or fog may be used to disperse vapour.
DO NOT enter confined space where gas may have collected.
▶ Keep area clear until gas has dispersed.
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

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.  A void all personal contact, including inhalation.  Wear protective clothing when risk of exposure occurs.  Use in a well-ventilated area.  Prevent concentration in hollows and sumps.  Do NOT enter confined spaces until atmosphere has been checked.  Avoid contact with incompatible materials.  When handling, DO NOT eat, drink or smoke.  Do NOT incinerate or puncture aerosol cans.  Do NOT pray directly on humans, exposed food or food utensils.  Avoid physical damage to containers.  Always wash hands with soap and water after handling.  Work clothes should be laundered separately.  Use good occupational work practice.  Observe manufacturer's storage and handling recommendations contained within this SDS.  Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.  Do NOT allow cothing wet with material to stay in contact with skin
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> <li>Keep containers securely sealed. Contents under pressure.</li> <li>Store away from incompatible materials.</li> <li>Store in a cool, dry, well ventilated area.</li> <li>Avoid storage at temperatures higher than 40 deg C.</li> <li>Store in an upright position.</li> <li>Protect containers against physical damage.</li> <li>Check regularly for spills and leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

### Conditions for safe storage, including any incompatibilities



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)

l	INGREDIENT DATA	

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	isohexanes	Hexane, other isomers	500 ppm / 1760 mg/m3	3500 mg/m3 / 1000 ppm	Not Available	Not Available
Australia Exposure Standards	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	Not Available
Australia Exposure Standards	ethanol	Ethyl alcohol	1000 ppm / 1880 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	carbon dioxide	Carbon dioxide in coal mines	12500 ppm / 22500 mg/m3	54000 mg/m3 / 30000 ppm	Not Available	Not Available
Australia Exposure Standards	carbon dioxide	Carbon dioxide	5000 ppm / 9000 mg/m3	54000 mg/m3 / 30000 ppm	Not Available	Not Available

# EMERGENCY LIMITS

Ingredient	Material name	TEEL-1		TEEL-2	TEEL-3
acetone	Acetone	Not Available		Not Available	Not Available
ethanol	Ethanol: (Ethyl alcohol)	Not Available		Not Available	15000* ppm
Ingredient	Original IDLH		Revised IDLH		
isohexanes	Not Available		Not Ava	lot Available	
acetone	2,500 ppm		Not Ava	ailable	
ethanol	3,300 ppm		Not Ava	ailable	
carbon dioxide	40,000 ppm		Not Ava	ailable	

### Exposure controls

	CARE: Use of a quantity of this material in confined space of could require increased ventilation and/or protective gear Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be i The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilation ventilation system must match the particular process and che Employers may need to use multiple types of controls to prev General exhaust is adequate under normal conditions. If risk obtain adequate protection. Provide adequate ventilation in warehouse or closed storage Air contaminants generated in the workplace possess varying circulating air required to effectively remove the contaminant	barrier between the worker and the hazard. Well-d ndependent of worker interactions to provide this hi ty or process is done to reduce the risk. selected hazard "physically" away from the worker in can remove or dilute an air contaminant if designer emical or contaminant in use. vent employee overexposure. of overexposure exists, wear SAA approved respirat areas. g "escape" velocities which, in turn, determine the "o	esigned engineering controls can gh level of protection. and ventilation that strategically d properly. The design of a ator. Correct fit is essential to		
	Type of Contaminant:		Speed:		
Appropriate engineering controls	aerosols, (released at low velocity into zone of active gene	ration)	0.5-1 m/s		
	direct spray, spray painting in shallow booths, gas discharg	e (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)		
	Within each range the appropriate value depends on:				
	Lower end of the range	Upper end of the range			
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity			
	3: Intermittent, low production.	3: High production, heavy use			
	4: Large hood or large air mass in motion	4: Small hood-local control only	1		
	Simple theory shows that air velocity falls rapidly with distance with the square of distance from the extraction point (in simple accordingly, after reference to distance from the contaminating 1-2 m/s (200-400 f/min.) for extraction of solvents generated considerations, producing performance deficits within the ext factors of 10 or more when extraction systems are installed of	le cases). Therefore the air speed at the extraction ng source. The air velocity at the extraction fan, for in a tank 2 meters distant from the extraction point. raction apparatus, make it essential that theoretical	point should be adjusted, example, should be a minimum of Other mechanical		
Personal protection					



Safety glasses with side shields.

Chemical goggles.

Eye and face protection

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. 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. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or

	<ul> <li>national equivalent]</li> <li>Close fitting gas tight goggles</li> <li>DO NOT wear contact lenses.</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 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. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE:</li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. Ight weight rubber gloves.</li> <li>Yor potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE: <ul> <li>Overalls.</li> <li>Skin cleansing cream.</li> <li>Eyewash unit.</li> <li>Do not spray on hot surfaces.</li> <li>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.</li> <li>Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost.</li> </ul> </li> <li>BRETHERICK: Handbook of Reactive Chemical Hazards.</li> </ul>

### Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

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

Dy-Mark Protech Brake & Parts Cleaner Non Chlorinated

Material	CPI
BUTYL	А
PE/EVAL/PE	А
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE	С
NITRILE+PVC	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON/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

#### 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)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used
- Generally not applicable.

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

Appearance	Colourless flammable liquid with a solvent odour; not miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	0.74-0.80
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
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	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	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> <li>Presence of heat source and direct sunlight</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

Inhaled	<ul> <li>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.</li> <li>Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.</li> <li>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.</li> <li>Animal testing shows that the most common signs of inhalation overdose is inco-ordination and drowsiness.</li> <li>Carbon dioxide is an odourless gas, which gives very poor warning of exposure. It can cause rapid loss of consciousness, and death from lack of oxygen at concentrations of 10% in air.</li> <li>Carbon dioxide is the most powerful dilator of brain vessels known.</li> <li>Inhalation of toxic gases may cause:</li> <li>Central Nervous System effects including depression, headache, confusion, dizziness, stupor, coma and seizures;</li> <li>respiratory: acute lung swellings, shortness of breath, wheezing, rapid breathing, other symptoms and respiratory arrest;</li> <li>heart: collapse, irregular heartbeats and cardiac arrest;</li> <li>gastrointestinal: irritation, ulcers, nausea and vomiting (may be bloody), and abdominal pain.</li> <li>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.</li> <li>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.</li> </ul>		
		he material may be damaging to the health of the individual. yl alcohol, "alcohol") may produce nausea, vomiting, bleeding from the digestive tract, abdominal pain, and diarrhoea. Effects	
Ingestion	<1.5 g/L	Mild: impaired vision, co-ordination and reaction time; emotional instability	
	1.5-3.0 g/L	Moderate: Slurred speech, confusion, inco-ordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired	

	te fa S bi m a C C	ojective performance in standardized ists. Possible double vision, flushing, ist heart rate, sweating and incontinence. low breathing may occur rarely and fast reathing may develop in cases of etabolic acidosis, low blood sugar nd low blood potassium. entral nervous system depression may rogress to coma.	-	
	te A 3-5 g/L re C m m	evere: cold clammy skin, low body imperature and low blood pressure. trial fibrillation and heart block have been sported. Depression of breathing may ccur, respiratory failure may follow erious poisoning, choking on vomit may usult in lung inflammation and swelling. onvulsions due to severe low blood sugar ay also occur. Acute liver inflammation ay develop.		
	Central nervous system (CN	of entry in commercial/industrial environm S) depression may include general discom	ents fort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic nsciousness. Serious poisonings may result in respiratory depression and	
Skin Contact	Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. This material can cause inflammation of the skin on contact in some persons. Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this material The material may accentuate any pre-existing dermatitis condition			
Eye	The material may accentuate any pre-existing definition of the set			
Chronic	Not considered to be a risk because of the externer volatility of the gas. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population. There is some evidence from animal testing that exposure to this material may result in reduced fertility. There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby. Prolonged exposure to the thanol may cause damage to the liver and cause scarring. It may also worsen damage caused by other agents. Main route of exposure to the gas in the workplace is by inhalation.			
	ΤΟΧΙΟΙΤΥ		IRRITATION	
Dy-Mark Protech Brake & Parts Cleaner Non Chlorinated	Not Available		Not Available	
isohexanes	TOXICITY Not Available		IRRITATION Not Available	
	TOXICITY Dermal (rabbit) LD50: =20 Inhalation (rat) LC50: 100.	mg/kg <sup>[2]</sup>	IRRITATION	
		2 mg/l/8hr <sup>[2]</sup>	Eye (human): 500 ppm - irritant Eye (rabbit): 20mg/24hr -moderate	
acetone	Oral (rat) LD50: 1800-730		Eye (rabbit): 20mg/24hr -moderate Eye (rabbit): 3.95 mg - SEVERE Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24hr - mild Skin (rabbit):395mg (open) - mild	
acetone	Oral (rat) LD50: 1800-730		Eye (rabbit): 20mg/24hr -moderate Eye (rabbit): 3.95 mg - SEVERE Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24hr - mild	
acetone	TOXICITY Inhalation (rat) LC50: 124.	0 mg/kg <sup>[2]</sup> 7 mg/l/4H <sup>[2]</sup>	Eye (rabbit): 20mg/24hr -moderate Eye (rabbit): 3.95 mg - SEVERE Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24hr - mild Skin (rabbit):395mg (open) - mild Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION Eye (rabbit): 500 mg SEVERE	
acetone	TOXICITY	0 mg/kg <sup>[2]</sup> 7 mg/l/4H <sup>[2]</sup>	Eye (rabbit): 20mg/24hr -moderate Eye (rabbit): 3.95 mg - SEVERE Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24hr - mild Skin (rabbit):395mg (open) - mild Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION	
	TOXICITY Inhalation (rat) LC50: 124. Oral (rat) LD50: =1501 mg	0 mg/kg <sup>[2]</sup> 7 mg/l/4H <sup>[2]</sup>	Eye (rabbit): 20mg/24hr -moderate Eye (rabbit): 3.95 mg - SEVERE Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24hr - mild Skin (rabbit):395mg (open) - mild Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION Eye (rabbit): 500 mg SEVERE Eye (rabbit): 100mg/24hr-moderate Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit):20 mg/24hr-moderate Skin (rabbit):400 mg (open)-mild Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY Inhalation (rat) LC50: 124.	0 mg/kg <sup>[2]</sup> 7 mg/l/4H <sup>[2]</sup> /kg <sup>[2]</sup>	Eye (rabbit): 20mg/24hr -moderate Eye (rabbit): 3.95 mg - SEVERE Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24hr - mild Skin (rabbit):395mg (open) - mild Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION Eye (rabbit): 500 mg SEVERE Eye (rabbit): 100mg/24hr-moderate Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit):20 mg/24hr-moderate Skin (rabbit):400 mg (open)-mild	

 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

Dy-Mark Protech Brake & Parts Cleaner Non Chlorinated	Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins. The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in the gut lymph, but most hydrocarbons partly separate from fats and undergo metabolism in the gut cell. The gut cell may play a major role in determining the proportion of hydrocarbon that becomes available to be deposited unchanged in peripheral tissues such as in the body fat stores or the liver.		
ACETONE	For acetone: The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitizer, but it removes fat from the skin, and it also irritates the eye. Animal testing shows acetone may cause macrocytic anaemia. Studies in humans have shown that exposure to acetone at a level of 2375 mg/cubic metre has not caused neurobehavioural deficits.		
Dy-Mark Protech Brake & Parts Cleaner Non Chlorinated & ISOHEXANES	No significant acute toxicological data identified in literature search.		
ACETONE & 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.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		0	not available or does not fill the criteria for classification le to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity ENDPOINT SPECIES VALUE SOURCE TEST DURATION (HR) **Dv-Mark Protech Brake &** Not Not Not Parts Cleaner Non Chlorinated Not Available Not Available Available Available Available ENDPOINT TEST DURATION (HR) SPECIES VALUE SOURCE isohexanes LC50 96 Fish 0.961mg/L 3 EC50 96 1.526mg/L 3 Algae or other aquatic plants ENDPOINT **TEST DURATION (HR)** SPECIES VALUE SOURCE LC50 5-540mg/L 96 Fish 2 >100mg/L acetone EC50 48 Crustacea 4 EC50 96 Algae or other aquatic plants 20.565mg/L 4 NOEC 240 Crustacea 1-866mg/L 2 ENDPOINT **TEST DURATION (HR)** SPECIES VALUE SOURCE Fish 2 LC50 96 11-mg/L EC50 48 Crustacea 4 ethanol 2mg/L EC50 96 Algae or other aquatic plants 17.921ma/L 4 NOEC 2016 0.000375mg/L 4 Fish ENDPOINT **TEST DURATION (HR)** SPECIES VALUE SOURCE carbon dioxide LC50 96 53.413mg/L 3 Fish EC50 96 Algae or other aquatic plants 237.138ma/L 3 Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite

V3.12 (QSAR) - 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:

+ drowning 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 Ethanol: log Kow: -0.31 to -0.32; Koc 1: Estimated BCF= 3;

Half-life (hr) air: 144; Half-life (hr) H2O surface water: 144; Henry's atm m3 /mol: 6.29E-06; BOD 5 if unstated: 0.93-1.67,63% COD: 1.99-2.11,97%; ThOD : 2.1.

Environmental Fate: Terrestrial - Ethanol quickly biodegrades in soil but may leach into ground water; most is lost by evaporation. Ethanol is expected to have very high mobility in soil. Volatilization of ethanol from moist soil surfaces is expected to be an important fate process. The potential for volatilization of ethanol from dry soil surfaces may exist. Biodegradation is expected to be an important fate process for ethanol based on half-lives on the order of a few days for ethanol in sandy soil/groundwater microcosms. Atmospheric Fate: Ethanol is expected to exist solely as a vapour in the ambient atmosphere. Vapour-phase ethanol is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 5 days. Ethanol readily degraded by reaction with photochemically produced hydroxy radicals; release into air will result in photodegradation and wet deposition.

Aquatic Fate: When released into water ethanol readily evaporates and is biodegradable. Ethanol is not expected to adsorb to suspended solids and sediment. Volatilization from water surfaces is expected and volatilization half-lives for a model river and model lake are 3 and 39 days, respectively. Bioconcentration in aquatic organisms is considered to be low. Hydrolysis and photolysis in sunlit surface waters is not expected to be an important environmental fate process for ethanol and is unlikely to be persistent in aquatic environments.

#### For carbon dioxide:

Environmental Fate: Carbon dioxide in earth's atmosphere is considered a trace gas. There are seasonal fluctuations of atmospheric concentrations of carbon dioxide primarily due to CO2 absorbed during seasonal plant growth. Due to human activities such as the combustion of fossil fuels and deforestation, the concentration of atmospheric carbon dioxide has increased by about 35% since preindustrial times. Carbon dissolved in the oceans is about 50 times greater than CO2 found in the atmosphere. The oceans act as an enormous carbon sink, having "absorbed about one-third of all human-generated CO2 emissions to date." Generally, gas solubility decreases as water temperature increases. Accordingly the ability of the oceans to absorb carbon dioxide from the atmosphere decreases as ocean temperatures rise. Carbon dioxide is soluble in water, where it spontaneously interconverts between CO2 and H2CO3 (carbonic acid). The relative concentrations of CO2, H2CO3, and the deprotonated forms HCO3 - (bicarbonate) and CO3 2-(carbonate) depend on the pH. In neutral or slightly alkaline water (pH > 6.5), bicarbonate predominates (>50%) becoming most prevalent (>95%) at the pH of seawater, while in very alkaline water (pH > 10.4) carbonate predominates (>50%). The bicarbonate and carbonate forms are very soluble, such that air-equilibrated ocean water (mildly alkaline with typical pH = 8.2 - 8.5) contains about 120 mg of bicarbonate per litre. Most of the CO2 taken up by the ocean forms carbonic acid. Some is consumed in photosynthesis by organisms in the water, and a small proportion of that sinks and leaves the carbon cycle. There is considerable concern that as a result of increased CO2 in the atmosphere the acidity of seawater has been increasing. This may adversely affect organisms living in the water, as with increasing acidity the availability of carbonates, necessary for forming shells, decreases. For n-Hexane: Log Kow: 3.17-3.94; Henry � s Law Constant: 1.69 atm-m3 mol; Vapor Pressure: 150 mm Hg @ 25 C; Log Koc: 2.90 to

Atmospheric Fate: n-Hexane is not expected to be directly broken down by sunlight. The main atmospheric removal mechanism is through reactions with hydroxyl radicals, with an approximant half-life of 2.9 days. The smog-producing potential of n-hexane is very low, compared to other alkanes, or chlorinated VOCs. Hydroxyl ion reactions in the upper troposphere, therefore, are probably the primary mechanisms for n-hexane degradation in the atmosphere.

Terrestrial Fate: Surface evaporation is expected to be the main fate process of this substance in soil. The substance has a moderate ability to sorb to soil particles but, is expected to have low potential for leaching into the lower soil depths. n-Hexane is expected to generally stay near the soil surface and, if not appreciably sorbed into the soil matrix, will eventually evaporate. Exceptions would involve locations with shallow groundwater tables where large spills occur - in such cases, n-hexane would spread out to contaminate a large volume of soil. Once introduced into groundwater, n-hexane may be fairly persistent, since its degradation by water is slow and opportunities for biodegradation may be limited, (due to low oxygen conditions), or, where nutrients, such as nitrogen or phosphorus, are in limited supply. Biological breakdown is probably the most significant degradation means in groundwater. Pseudomonas mendocina bacteria have been shown to break the substance down in groundwater and mixed/pure bacterial cultures can utilize the substance, in the presence of oxygen. The most important biological breakdown process involves the conversion of n-hexane to primary alcohols, aldehydes and, ultimately, into fatty acids. In general, unless the n-hexane is buried at some depth within a soil or sediment, evaporation is generally assumed to occur at a much more rapid rate than chemical or biochemical degradation processes.

Aquatic Fate: The dominant transport process from water is evaporation, with an estimated half-life of <3 hours. For standing bodies of water, a half-life no longer than 6.8 days is estimated. The substance has very low water solubility and is resistant to breakdown by water. Few data exist for the biological breakdown of n-hexane in water, however; this process is not considered to be as rapid as evaporation. N-Hexane may be persistent if released to deep sediment.

Ecotoxicity: This substance is not expected to concentrate/accumulate in aquatic organisms or the food chain. These substances are considered to be the most readily biodegradable fractions in petroleum, particularly when oxygen is present in solution. The substance is moderately toxic to rainbow trout, fathead minnow, bluegill, and Daphnia water fleas.

### DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
isohexanes	LOW	LOW
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
carbon dioxide	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
isohexanes	LOW (LogKOW = 3.7056)
acetone	LOW (BCF = 0.69)
ethanol	LOW (LogKOW = -0.31)
carbon dioxide	LOW (LogKOW = 0.83)

#### Mobility in soil

Ingredient	Mobility
isohexanes	LOW (KOC = 230.3)
acetone	HIGH (KOC = 1.981)
ethanol	HIGH (KOC = 1)
carbon dioxide	HIGH (KOC = 1.498)

# SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

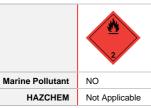
Product / Packaging disposal

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
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. If it has been
contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be
applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be
appropriate.
DO NOT allow wash water from cleaning or process equipment to enter drains.
It may be necessary to collect all wash water for treatment before disposal.
In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
Consult State Land Waste Management Authority for disposal.
<ul> <li>Discharge contents of damaged aerosol cans at an approved site.</li> </ul>
<ul> <li>Allow small quantities to evaporate.</li> </ul>
DO NOT incinerate or puncture aerosol cans.
<ul> <li>Bury residues and emptied aerosol cans at an approved site.</li> </ul>

# SECTION 14 TRANSPORT INFORMATION

# Labels Required



# 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 ICAO / IATA Subrisk ERG Code	2.1 Not Applicable		
Packing group	Not Applicable	1		
Environmental hazard	Not Applicable			
	Special provisions		A145 A167 A802	
	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	
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	EMS NumberF-D , S-USpecial provisions63 190 277 327 344 381 959Limited Quantities1000 ml

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

Not Applicable

### ACETONE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)

#### ETHANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

### CARBON DIOXIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

### **National Inventory Status**

National Inventory	Status		
Australia - AICS	No (isohexanes)		
Canada - DSL	No (isohexanes)		
Canada - NDSL	No (isohexanes; acetone; ethanol; carbon dioxide)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	No (isohexanes)		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	No (isohexanes)		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (isohexanes)		
Vietnam - NCI	Yes		
Russia - ARIPS	No (isohexanes)		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)		

### **SECTION 16 OTHER INFORMATION**

Revision Date	01/11/2019
Initial Date	15/09/2014

### **SDS Version Summary**

Version	Issue Date	Sections Updated
8.1.1.1	18/04/2019	Physical Properties
9.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

### Other information

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

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

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Inventory of Chemical Substances (AICS)

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

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