

# **Permatex Disc Brake Quiet Aerosol**

# ITW AAMTech

Chemwatch: **5063-47** Version No: **9.1.1.1** 

Material Safety Data Sheet according to NOHSC and ADG requirements

Chemwatch Hazard Alert Code: 4

Issue Date: 09/09/2014
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Initial Date: Not Available
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# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Product name	Permatex Disc Brake Quiet Aerosol	
Synonyms	PX80077	
Proper shipping name	AEROSOLS	
Other means of identification	Not Available	

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

Relevant identified	Application is by spray atomisation from a hand held aerosol pack	
uses	Used to reduce/eliminate disc brake noise.	

#### Details of the manufacturer/importer

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

# **Emergency telephone number**

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

# **SECTION 2 HAZARDS IDENTIFICATION**

# Classification of the substance or mixture

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

Poisons Schedule	Not Applicable		
Risk Phrases <sup>[1]</sup>	R36/38	Irritating to eyes and skin.	
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
	R67	Vapours may cause drowsiness and dizziness.	
	R66	Repeated exposure may cause skin dryness and cracking.	
	R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.	
	R62(3)	Possible risk of impaired fertility.	
	R12	Extremely flammable.	
	R44	Risk of explosion if heated under confinement.	

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Legend:

1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex

GHS Classification [1]

Flammable Aerosol Category 1, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Reproductive Toxicity Category 2, STOT - SE (Narcosis) Category 3, STOT - RE Category 2, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2

Legend:

1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex

#### Label elements

#### **GHS** label elements









**Permatex Disc Brake Quiet Aerosol** 

SIGNAL WORD

#### Hazard statement(s)

Extremely flammable aerosol		
Causes skin irritation		
Causes serious eye irritation		
Suspected of damaging fertility or the unborn child		
May cause drowsiness or dizziness		
May cause damage to organs through prolonged or repeated exposure		
Toxic to aquatic life		
Toxic to aquatic life with long lasting effects		
Risk of explosion if heated under confinement		
Repeated exposure may cause skin dryness and cracking		

#### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P210	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P211 Do not spray on an open flame or other ignition source.		
P251 Do not pierce or burn, even after use.		

# Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/attention.	
P362	Take off contaminated clothing.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	

# Precautionary statement(s) Storage

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

# Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration

#### Label elements







Relevant risk statements are found in section 2

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# **Permatex Disc Brake Quiet Aerosol**

Indication(s) of danger	F+, N, Xn		
SAFETY ADVICE			
S02	Keep out of reach of children.		
S09	Keep container in a well ventilated place.		
S15	Keep away from heat.		
S16	Keep away from sources of ignition. No smoking.		
S23	Do not breathe gas/fumes/vapour/spray.		
S26	In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.		
S281	After contact with skin, wash immediately with detergent and plenty of water.		
S29	Do not empty into drains.		
S33	Take precautionary measures against static discharges.		
S35	This material and its container must be disposed of in a safe way.		
S36	Wear suitable protective clothing.		
<b>S</b> 37	Wear suitable gloves.		
S38	In case of insufficient ventilation, wear suitable respiratory equipment.		
S38	n case of insufficient ventilation, wear suitable respiratory equipment.		
S39	Near eye/face protection.		
S40	o clean the floor and all objects contaminated by this material, use water and detergent.		
S41	In case of fire and/or explosion, DO NOT BREATHE FUMES.		
S43	In case of fire use		
S45	In case of accident or if you feel unwell IMMEDIATELY contact Doctor or Poisons Information Centre (show label if possible).		
S46	If swallowed, seek medical advice immediately and show this container or label.		
S51	Use only in well ventilated areas.		
S52	Not recommended for interior use on large surface areas.		
S53	Avoid exposure - obtain special instructions before use.		
S56	Dispose of this material and its container at hazardous or special waste collection point.		
<b>S</b> 57	Use appropriate container to avoid environmental contamination.		
S61	Avoid release to the environment. Refer to special instructions/Safety data sheets.		
S64	If swallowed, rinse mouth with water (only if the person is conscious).		
Other hazards			

Inhalation, skin contact and/or ingestion may produce health damage*.	
Cumulative effects may result following exposure*.	
May produce discomfort of the respiratory system*.	

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

# **Substances**

See section below for composition of Mixtures

# **Mixtures**

CAS No	%[weight]	Name
67-64-1	10-30	acetone
110-54-3	15-40	<u>n-hexane</u>
141-78-6	1-5	ethyl acetate
64742-89-8.	1-5	solvent naphtha petroleum, light aliphatic
74-98-6	15-40	propane
106-97-8.	10-30	butane

# **SECTION 4 FIRST AID MEASURES**

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#### Description of first aid measures

Eye Contact	If aerosols come in contact with the eyes:  Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If solids or aerosol mists are deposited upon the skin:  Flush skin and hair with running water (and soap if available).  Remove any adhering solids with industrial skin cleansing cream.  DO NOT use solvents.  Seek medical attention in the event of irritation.
Inhalation	<ul> <li>If aerosols, fumes or combustion products are inhaled:</li> <li>Remove to fresh air.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	Not considered a normal route of entry.  If swallowed do NOT induce vomiting.  If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.  Observe the patient carefully.  Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.  Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.  Seek medical advice.  Avoid giving milk or oils.  Avoid giving alcohol.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For acute or short term repeated exposures to acetone:

- Symptoms of acetone exposure approximate ethanol intoxication.
- About 20% is expired by the lungs and the rest is metabolised. Alveolar air half-life is about 4 hours following two hour inhalation at levels near the Exposure Standard; in overdose, saturable metabolism and limited clearance, prolong the elimination half-life to 25-30 hours.
- There are no known antidotes and treatment should involve the usual methods of decontamination followed by supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

#### Management:

Measurement of serum and urine acetone concentrations may be useful to monitor the severity of ingestion or inhalation.

Inhalation Management:

- Maintain a clear airway, give humidified oxygen and ventilate if necessary.
- If respiratory irritation occurs, assess respiratory function and, if necessary, perform chest X-rays to check for chemical pneumonitis.
- Consider the use of steroids to reduce the inflammatory response.
- Treat pulmonary oedema with PEEP or CPAP ventilation.

# **Dermal Management:**

- Remove any remaining contaminated clothing, place in double sealed, clear bags, label and store in secure area away from patients and staff.
- Irrigate with copious amounts of water.
- An emollient may be required.

#### Eye Management:

- Irrigate thoroughly with running water or saline for 15 minutes.
- Stain with fluorescein and refer to an ophthalmologist if there is any uptake of the stain.

#### Oral Management:

Determinant

- ▶ No GASTRIC LAVAGE OR EMETIC
- Encourage oral fluids.

#### Systemic Management:

- Monitor blood glucose and arterial pH.
- Ventilate if respiratory depression occurs.
- If patient unconscious, monitor renal function.
- Symptomatic and supportive care.

The Chemical Incident Management Handbook:

Guy's and St. Thomas' Hospital Trust, 2000

**BIOLOGICAL EXPOSURE INDEX** 

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Index

Sampling Time Comments Acetone in urine End of shift 50 ma/L NS

NS: Non-specific determinant; also observed after exposure to other material

Following acute or short term repeated exposures to n-hexane:

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Large quantities of n-hexane are expired by the lungs after vapour exposure (50-60%). Humans exposed to 100 ppm demonstrate an n-hexane biological half life of 2 hours

Initial attention should be directed towards evaluation and support of respiration. Cardiac dysrhythmias are a potential complication.

#### INGESTION:

• Ipecac syrup should be considered for ingestion of pure hexane exceeding 2-3ml/kg. Extreme caution must be taken to avoid aspiration since small amounts of n-hexane intratracheally, produce a severe chemical pneumonitis.

[Ellenhorn and Barceloux: Medical Toxicology]

**BIOLOGICAL EXPOSURE INDEX - BEI** 

BEIs represent the levels of determinants which are most likely to be observed in specimens collected in a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the Exposure Standard (ES or TLV).

Determinant Index Sampling Time Comments
1. 2,5-hexanedione in urine 5 mg/gm creatinine End of shift NS
2. n-Hexane in end-exhaled air SQ

NS: Non-specific determinant; Metabolite observed following exposure to other materials.

SQ: Semi-quantitative determinant; Interpretation may be ambiguous - should be used as a screening test or confirmatory test.

#### **SECTION 5 FIREFIGHTING MEASURES**

#### **Extinguishing media**

#### SMALL FIRE:

▶ Water spray, dry chemical or CO2

#### LARGE FIRE:

Water spray or fog.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility

 Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

#### Advice for firefighters

# Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- ▶ May be violently or explosively reactive
- Wear breathing apparatus plus protective gloves.
- ▶ Prevent, by any means available, spillage from entering drains or water course.

# Fire/Explosion Hazard

- Liquid and vapour are flammable.
- Moderate fire hazard when exposed to heat or flame.
- ▶ Vapour forms an explosive mixture with air.
- ▶ Moderate explosion hazard when exposed to heat or flame.

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

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

#### Minor Spills

- ▶ Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- ▶ Wear protective clothing, impervious gloves and safety glasses.
- Shut off all possible sources of ignition and increase ventilation.

#### **Major Spills**

- ▶ Clear area of personnel and move upwind.
- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.

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

# **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

Frecautions for sale i	ianumg
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Store in an upright position.</li> <li>Outside or detached storage is preferred.</li> <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> </ul>

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

Suitable container

- ▶ Aerosol dispenser.
- ▶ Check that containers are clearly labelled.

Storage incompatibility

▶ Avoid reaction with oxidising agents

# PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Control parameters**

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	acetone	Acetone	1185 mg/m3 / 500 ppm	2375 mg/m3 / 1000 ppm	Not Available	Not Available
Australia Exposure Standards	n-hexane	Hexane (n-Hexane)	72 mg/m3 / 20 ppm	Not Available	Not Available	Not Available
Australia Exposure Standards	ethyl acetate	Ethyl acetate	720 mg/m3 / 200 ppm	1440 mg/m3 / 400 ppm	Not Available	Not Available
Australia Exposure Standards	propane	Propane	Not Available	Not Available	Not Available	Not Available
Australia Exposure Standards	butane	Butane	1900 mg/m3 / 800 ppm	Not Available	Not Available	Not Available

#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
acetone	Acetone	Not Available	Not Available	Not Available
n-hexane	Hexane	300 ppm	Not Available	Not Available
ethyl acetate	Ethyl acetate	400 ppm	400 ppm	10000 ppm
solvent naphtha petroleum, light aliphatic	Rubber solvent; (Naphtha (petroleum) light aliphatic)	264 ppm	1700 ppm	10000 ppm
propane	Propane	Not Available	Not Available	Not Available
butane	Butane	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
acetone	20,000 ppm	2,500 [LEL] ppm
n-hexane	5,000 ppm	1,100 [LEL] ppm
ethyl acetate	10,000 ppm	2,000 [LEL] ppm
solvent naphtha petroleum, light aliphatic	Not Available	Not Available
propane	20,000 [LEL] ppm	2,100 [LEL] ppm
butane	Not Available	Not Available

# **Exposure controls**

# Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

# Personal protection











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Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <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. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities.  OTHERWISE:  Overalls.  Skin cleansing cream.  Eyewash unit.
Thermal hazards	Not Available

# Recommended material(s)

#### **GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

#### "Forsberg Clothing Performance Index".

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

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Material	СРІ
##ethyl	acetate
BUTYL	С
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON	С
VITON/CHLOROBUTYL	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.

#### Respiratory protection

Type GAX 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 5 x ES	Air-line*	GAX-2 P3	GAX-PAPR-2 P3
up to 10 x ES	-	GAX-3 P3	-
10+ 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)

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# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

# Information on basic physical and chemical properties

Appearance 22aer Blue highly flammable liquid with a solvent odour; not miscible with water.

Physical state	Liquid	Relative density (Water = 1)	0.70-0.80
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)	>38	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-104 Propellant	Taste	Not Available
Evaporation rate	<1 BuAc=1	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	9.5	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.8	Volatile Component (%vol)	59.5% (VOC - by wt)
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	>1	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

information on toxico	logical effects
Inhaled	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 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.
Ingestion	Not normally a hazard due to physical form of product.  Considered an unlikely route of entry in commercial/industrial environments  Accidental ingestion of the material may be damaging to the health of the individual.  Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)  Chronic inhalation or skin exposure to n-hexane may cause damage to nerve ends in extremities, e.g. finger, toes with loss

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	of sensation.		
Skin Contact	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. The material may accentuate any pre-existing dermatitis condition Spray mist may produce discomfort 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.		
Еуе	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals. Prolonged eye contact may cause inflammation characterised by a temporary redness of the conjunctiva (similar to windburn).  The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Corneal injury		
Chronic	may develop, with possible permanent impairment of vision, if not promptly and adequately treated.  Principal route of occupational exposure to the gas is by inhalation.  Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.  Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility.  Workers exposed to acetone for long periods showed inflammation of the airways, stomach and small bowel, attacks of giddiness and loss of strength.		
	TOXICITY	IRRITATION	
Permatex Disc Brake Quiet Aerosol	Not Available	Not Available	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 20000 mg/kg <sup>[2]</sup>	Eye (human): 500 ppm - irritant	
	Inhalation (rat) LC50: 50.1 mg/L/8 hr <sup>[2]</sup>	Eye (rabbit): 20mg/24hr -moderate	
acetone	Oral (rat) LD50: 5800 mg/kgE <sup>[2]</sup>	Eye (rabbit): 3.95 mg - SEVERE	
		Skin (rabbit): 500 mg/24hr - mild	
		Skin (rabbit):395mg (open) - mild	
	тохісіту	IRRITATION	
	Dermal (rabbit) LD50: >3301.5 mg/kg <sup>[1]</sup>	Eye(rabbit): 10 mg - mild	
n-hexane	Inhalation (rat) LC50: 48000 ppm/4H <sup>[2]</sup>		
	Oral (rat) LD50: 15847.2 mg/kg <sup>[1]</sup>		
	тохісіту	IRRITATION	
	Dermal (rabbit) LD50: >18000 mg/kg <sup>[2]</sup>	Eye (human): 400 ppm	
	Inhalation (mouse) LC50: >18 mg/l4 h <sup>[1]</sup>		
	Inhalation (mouse) LC50: 33.5 mg/l2 h <sup>[1]</sup>		
ethyl acetate	Inhalation (mouse) LC50: 45 mg/L/2H <sup>[2]</sup>		
	Inhalation (rat) LC50: >6000 ppm/6H <sup>[2]</sup>		
	Inhalation (rat) LC50: 1600 ppm/8h <sup>[2]</sup>		
	Inhalation (rat) LC50: 200 mg/l1 h <sup>[1]</sup>		
	Oral (rat) LD50: 10170 mg/kg <sup>[1]</sup>		
solvent naphtha	тохісіту	IRRITATION	
petroleum, light	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Not Available	
aliphatic	Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>		
	тохісіту	IRRITATION	
	Inhalation (mouse) LC50: >15.6<17.9 mm/l2 h mm/l2="">[1]	Not Available	
	Inhalation (mouse) LC50: 410000 ppm2 h <sup>[1]</sup>		
propane	Inhalation (rat) LC50: >800000 ppm15 min <sup>[1]</sup>		
p. 5p10	Inhalation (rat) LC50: 1354.944 mg/L15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: 1355 mg/l15 min <sup>[1]</sup>		
	[41	1	

Inhalation (rat) LC50: 1442.738 mg/L15  $\min^{[1]}$ 

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	Inhalation (rat) LC50: 1443 mg/l15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: 570000 ppm15 min <sup>[1]</sup>		
	TOXICITY	IRRITATION	
butane	Inhalation (rat) LC50: 658 mg/L/4H <sup>[2]</sup>	Nil reported	
Legend:	Value obtained from Europe ECHA Registered     Unless otherwise specified data extracted from		
ACETONE	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. for acetone:  The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitiser but is a defatting agent to the skin. Acetone is an eye irritant.		
N-HEXANE	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
SOLVENT NAPHTHA PETROLEUM, LIGHT ALIPHATIC	for petroleum:  This product contains benzene which is known to cause acute myeloid leukaemia and n-hexane which has been shown to metabolize to compounds which are neuropathic.  This product contains toluene. There are indications from animal studies that prolonged exposure to high concentrations of toluene may lead to hearing loss.  This product contains ethyl benzene and naphthalene from which there is evidence of tumours in rodents  Carcinogenicity: Inhalation exposure to mice causes liver tumours, which are not considered relevant to humans.		
PROPANE	No significant acute toxicological data identifie	ed in literature search.	
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	<b>~</b>	Reproductivity	<b>~</b>
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	<b>✓</b>
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	<b>~</b>
Mutagenicity	0	Aspiration Hazard	0

Legend:

✓ – Data required to make classification available

🗶 – Data available but does not fill the criteria for classification

Data Not Available to make classification

#### **CMR STATUS**

Not Applicable

# **SECTION 12 ECOLOGICAL INFORMATION**

# **Toxicity**

Drinking Water Standards: hydrocarbon total: 10 ug/l (UK max.).

DO NOT discharge into sewer or waterways.

Toxic to aquatic organisms.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
n-hexane	LOW	LOW
ethyl acetate	LOW (Half-life = 14 days)	LOW (Half-life = 14.71 days)
propane	LOW	LOW
butane	LOW	LOW

# **Bioaccumulative potential**

Ingredient	Bioaccumulation			
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acetone	LOW (BCF = 69)
n-hexane	MEDIUM (LogKOW = 3.9)
ethyl acetate	HIGH (BCF = 3300)
propane	LOW (LogKOW = 2.36)
butane	LOW (LogKOW = 2.89)

**Permatex Disc Brake Quiet Aerosol** 

# Mobility in soil

Ingredient	Mobility
acetone	HIGH (KOC = 1.981)
n-hexane	LOW (KOC = 149)
ethyl acetate	LOW (KOC = 6.131)
propane	LOW (KOC = 23.74)
butane	LOW (KOC = 43.79)

# **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

**Product / Packaging** disposal

- ▶ 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** 



HAZCHEM

2YE

# Land transport (ADG)

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

# Air transport (ICAO-IATA / DGR)

UN number	1950
Packing group	Not Applicable
UN proper shipping name	Aerosols, flammable; Aerosols, flammable (engine starting fluid)
Environmental hazard	No relevant data
Transport hazard class(es)	ICAO/IATA Class 2.1 ICAO / IATA Subrisk Not Applicable

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	ERG Code 10L	
	Special provisions	A145A167A802; A1A145A167A802
	Cargo Only Packing Instructions	203
Special precautions for user	Cargo Only Maximum Qty / Pack	150 kg
	Passenger and Cargo Packing Instructions	203; Forbidden
	Passenger and Cargo Maximum Qty / Pack	75 kg; Forbidden
	Passenger and Cargo Limited Quantity Packing Instructions	Y203; Forbidden
	Passenger and Cargo Limited Maximum Qty / Pack	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	IMDG Class 2.1
class(es)	IMDG Subrisk   Not Applicable
	EMS Number F-D , S-U
Special precautions for user	Special provisions 63 190 277 327 344 959
	Limited Quantities See SP277
	<u> </u>

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

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	n-hexane	X; Y
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	ethyl acetate	Z

# **SECTION 15 REGULATORY INFORMATION**

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

acetone(67-64-1) is found on the following regulatory lists	"Australia Exposure Standards","Australia Inventory of Chemical Substances (AICS)","Australia Hazardous Substances Information System - Consolidated Lists"
n-hexane(110-54-3) is found on the following regulatory lists	"Australia Exposure Standards","Australia Inventory of Chemical Substances (AICS)","Australia Hazardous Substances Information System - Consolidated Lists"
ethyl acetate(141-78-6) is found on the following regulatory lists	"Australia Exposure Standards","Australia Inventory of Chemical Substances (AICS)","Australia Hazardous Substances Information System - Consolidated Lists"
solvent naphtha petroleum, light aliphatic(64742-89-8.) is found on the following regulatory lists	"Australia Inventory of Chemical Substances (AICS)","International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft","Australia Hazardous Substances Information System - Consolidated Lists"
propane(74-98-6) is found on the	"Australia Exposure Standards","Australia Inventory of Chemical Substances (AICS)","Australia Hazardous Substances Information System - Consolidated Lists"

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#### **Permatex Disc Brake Quiet Aerosol**

following regulatory lists	
butane(106-97-8.) 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	Υ
Canada - DSL	Υ
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (solvent naphtha petroleum, light aliphatic)
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

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.

exempt from listing(see specific ingredients in brackets)

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.

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