

Permatex Fast Break Super Penetrant

ITW AAMTech

Chemwatch: **5058-77**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
Print Date: 02/06/2015
Initial Date: Not Available
S.Local.AUS.EN

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

Product Identifier

Product name	Permatex Fast Break Super Penetrant	
Synonyms	30052	
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

The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.

Application is by spray atomisation from a hand held aerosol pack Water displacing and penetrating fluid, lubricant and rust preventing.

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	S5	
Risk Phrases ^[1]	R36/37/38	Irritating to eyes, respiratory system and skin.
	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R44	Risk of explosion if heated under confinement.
	R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
	R67	Vapours may cause drowsiness and dizziness.
	R62(3)	Possible risk of impaired fertility.
	R12	Extremely flammable.

Chemwatch: 5058-77 Page 2 of 11 Issue Date: 09/09/2014 Version No: 9.1.1.1 Print Date: 02/06/2015

Permatex Fast Break Super Penetrant

1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex Legend: Flammable Aerosol Category 1, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Reproductive Toxicity GHS Classification [1] Category 2, STOT - SE (Resp. Irr.) Category 3, STOT - SE (Narcosis) Category 3, STOT - RE Category 2, Chronic Aquatic Hazard Category 3 1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex Legend:

Label elements

GHS label elements







SIGNAL WORD

Hazard statement(s)

H222	Extremely flammable aerosol		
H315	Causes skin irritation		
H319	Causes serious eye irritation		
H361	suspected of damaging fertility or the unborn child		
H335	May cause respiratory irritation		
H336	May cause drowsiness or dizziness		
H373	May cause damage to organs through prolonged or repeated exposure		
H412	Harmful to aquatic life with long lasting effects		
AUH044	Risk of explosion if heated under confinement		

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	P211 Do not spray on an open flame or other ignition source.	
P251	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

Indication(s) of

Version No: 9.1.1.1

Page 3 of 11 Issue Date: 09/09/2014 Print Date: 02/06/2015 **Permatex Fast Break Super Penetrant**

danger				
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.			
S37	Wear suitable gloves.			
S38	In case of insufficient ventilation, wear suitable respiratory equipment.			
S38	In case of insufficient ventilation, wear suitable respiratory equipment.			
S39	Wear eye/face protection.			
S40	To clean the floor and all objects contaminated by this material, use water and detergent.			
S41	In case of fire and/or explosion, DO NOT BREATHE FUMES.			
S43	In case of fire use			
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.			
S64	If swallowed, rinse mouth with water (only if the person is conscious).			
ther hazards				
	Inhalation, skin contact and/or ingestion may produce health damage*.			
	Limited evidence of a carcinogenic effect*.			

Inhalation, skin contact and/or ingestion may produce health damage*.	
Limited evidence of a carcinogenic effect*.	
Cumulative effects may result following exposure*.	
Repeated exposure potentially causes skin dryness and cracking*.	
May possibly be harmful to the foetus/ embryo*.	

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
64742-96-7	30-60	solvent naphtha petroleum, heavy aliphatic
64742-89-8.	10-30	solvent naphtha petroleum, light aliphatic
74-98-6	<10	propane
106-97-8.	<10	butane

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact

If aerosols come in contact with the eyes:

Chemwatch: 5058-77 Page 4 of 11 Issue Date: 09/09/2014 Version No: 9.1.1.1 Print Date: 02/06/2015

Permatex Fast Break Super Penetrant

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

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.

- Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- ▶ In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.

· Vapour forms an explosive mixture with air.

High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

NOTE: Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

SECTION 5 FIREFIGHTING MEASURES

Fire Incompatibility

Fire/Explosion Hazard

Extinguishing media SMALL FIRE: ▶ Water spray, dry chemical or CO2 LARGE FIRE: ▶ Water spray or fog.

Special hazards arising from the substrate or mixture

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. 		

Severe explosion hazard, in the form of vapour, when exposed to flame or spark.

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

Chemwatch: **5058-77** Page **5** of **11**

Version No: 9.1.1.1

Permatex Fast Break Super Penetrant

Issue Date: **09/09/2014**Print Date: **02/06/2015**

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

- Remove leaking cylinders to a safe place if possible.
- ▶ Release pressure under safe, controlled conditions by opening the valve.
- ▶ DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve.
- ▶ Clear area of personnel and move upwind.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling

- ▶ Containers, even those that have been emptied, may contain explosive vapours.
- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- Electrostatic discharge may be generated during pumping this may result in fire.
- ▶ Ensure electrical continuity by bonding and grounding (earthing) all equipment.

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.

Conditions for safe storage, including any incompatibilities

Suitable container

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

Storage incompatibility

CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material. Resultant overflow of containers may result in fire.

▶ 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	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
solvent naphtha petroleum, heavy aliphatic	Naphtha, heavy aliphatic solvent	2.6 mg/m3	29 mg/m3	220 mg/m3
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

Chemwatch: 5058-77 Page 6 of 11 Issue Date: 09/09/2014 Version No: 9.1.1.1 Print Date: 02/06/2015

Permatex Fast Break Super Penetrant

Ingredient	Original IDLH	Revised IDLH
solvent naphtha petroleum, heavy aliphatic	Not Available	Not Available
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

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		
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. 	
Skin protection	See Hand protection below	
Hands/feet protection	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Suitability and durability of glove type is dependent on usage.	
Body protection	See Other protection below	
Other protection	 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 computer-generated selection:

Permatex Fast Break Super Penetrant Not Available

Material CPI	
--------------	--

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

Chemwatch: 5058-77 Page **7** of **11** Issue Date: 09/09/2014 Version No: 9.1.1.1 Print Date: 02/06/2015

Permatex Fast Break Super Penetrant

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

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	22aer Brown flammable liquid with a solvent odour; not miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	0.81
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)	>38	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	<-81 propellant	Taste	Not Available
Evaporation rate	<1 BuAC = 1	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)	25.1% (VOC - by wt)
Vapour pressure (kPa)	517 (max)	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	>1	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Elevated temperatures. Presence of open flame. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7

^{^ -} Full-face

Page 8 of 11

Chemwatch: **5058-77**Version No: **9.1.1.1**

Permatex Fast Break Super Penetrant

Issue Date: **09/09/2014** Print Date: **02/06/2015**

Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on t	oxicological effects

Information on toxico	logical effects
Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. Inhalation hazard is increased at higher temperatures.
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 Considered an unlikely route of entry in commercial/industrial environments. The liquid may produce gastrointestinal discomfort and may be harmful if swallowed.
Skin Contact	The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Spray mist may produce discomfort The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Aromatic hydrocarbons may produce sensitivity and redness of the skin.
Еуе	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.
Chronic	Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. 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.

Permatex Fast Break	TOXICITY	IRRITATION
Super Penetrant	Not Available	Not Available
solvent naphtha	TOXICITY	IRRITATION
petroleum, heavy	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Not Available
aliphatic	Oral (rat) LD50: >5000 mg/kg ^[1]	
solvent naphtha	TOXICITY	IRRITATION
petroleum, light	Dermal (rabbit) LD50: >1900 mg/kg ^[1]	Not Available
aliphatic	Oral (rat) LD50: >4500 mg/kg ^[1]	
	TOXICITY	IRRITATION
	Inhalation (mouse) LC50: >15.6<17.9 mm/l2 h mm/l2="">[1]	Not Available
	Inhalation (mouse) LC50: 410000 ppm2 h ^[1]	
	Inhalation (rat) LC50: >800000 ppm15 min ^[1]	
propane	Inhalation (rat) LC50: 1354.944 mg/L15 min ^[1]	
	Inhalation (rat) LC50: 1355 mg/l15 min ^[1]	1 1 1
	Inhalation (rat) LC50: 1442.738 mg/L15 min ^[1]	
	Inhalation (rat) LC50: 1443 mg/l15 min ^[1]	
	Inhalation (rat) LC50: 570000 ppm15 min ^[1]	
l d	TOXICITY	IRRITATION
butane	Inhalation (rat) LC50: 658 mg/L/4H ^[2]	Nil reported

Chemwatch: 5058-77 Page 9 of 11 Issue Date: 09/09/2014 Version No: 9.1.1.1

Permatex Fast Break Super Penetrant

Print Date: 02/06/2015

Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Permatex Fast Break Super Penetrant

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.

PROPANE

No significant acute toxicological data identified in literature search.

SOLVENT NAPHTHA PETROLEUM, HEAVY **ALIPHATIC & 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.

Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	~	Reproductivity	~
Serious Eye Damage/Irritation	~	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	~
Mutagenicity	0	Aspiration Hazard	0

✓ – Data required to make classification available

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

Not Available to make classification

CMR STATUS

Not Applicable

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

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

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

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

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
propane	LOW	LOW
butane	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
propane	LOW (LogKOW = 2.36)
butane	LOW (LogKOW = 2.89)

Mobility in soil

Ingredient	Mobility
propane	LOW (KOC = 23.74)
butane	LOW (KOC = 43.79)

SECTION 13 DISPOSAL CONSIDERATIONS

Chemwatch: **5058-77** Page **10** of **11**

Version No: 9.1.1.1

Permatex Fast Break Super Penetrant

Issue Date: **09/09/2014** Print Date: **02/06/2015**

Waste treatment methods

Product / Packaging disposal

- ▶ 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.

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant

NO

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)

	10F0			
UN number	1950			
Packing group	Not Applicable			
UN proper shipping name	Aerosols, flammable; Aerosols, flammable (engine starting fluid)			
Environmental hazard	No relevant data			
	ICAO/IATA Class	2.1		
Transport hazard class(es)	ICAO / IATA Subrisk	Subrisk Not Applicable		
ciuss(cs)	ERG Code	10L		
	Special provisions		A145A167A802; A1A145A167A802	
	Cargo Only Packing I	nstructions	203	
	Cargo Only Maximum	Qty / Pack	150 kg	
Special precautions for user	Passenger and Cargo Packing Instructions		203; Forbidden	
101 4001	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 class(es)	IMDG Class 2.1 IMDG Subrisk Not Applicable

Chemwatch: 5058-77 Page 11 of 11 Issue Date: 09/09/2014 Version No: 9.1.1.1 Print Date: 02/06/2015

Permatex Fast Break Super Penetrant

SECTION 15 REGULATORY INFORMATION

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

solvent naphtha petroleum, heavy aliphatic(64742-96-7) is found on the following regulatory lists	"Australia Hazardous Substances Information System - Consolidated Lists"
solvent naphtha petroleum, light aliphatic(64742-89-8.) is found on the following regulatory lists	"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 following regulatory lists	"Australia Exposure Standards","Australia Hazardous Substances Information System - Consolidated Lists"
butane(106-97-8.) is found on the following regulatory lists	"Australia Exposure Standards","Australia Hazardous Substances Information System - Consolidated Lists"

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (solvent naphtha petroleum, light aliphatic)
Korea - KECI	Y
New Zealand - NZIoC	Υ
Philippines - PICCS	Y
USA - TSCA	Y
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.

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.

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.