Auto Klene Brake Klene

Auto Klene Solutions

Safety Data Sheet according to WHS and ADG requirements

Chemwatch: 5168-56 Issue Date: 31/03/2020 Version No: 3.1.1.1

3.1.1.1 Print Date: 31/03/2020

Chemwatch Hazard Alert Code: 3

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

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

Product name	Auto Klene Brake Klene
Froduct hame	
Synonyms	Not Available
Proper shipping name	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. (see 3.2.5 for relevant [AUST.] entries) (contains naphtha petroleum, light aliphatic solvent)
Other means of identification	Not Available
Relevant identified uses of th	e 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. Use according to manufacturer's directions. Liquid Brake cleaning fluid.
Details of the supplier of the	safety data sheet
Registered company name	Auto Klene Solutions
Address	1/83 Merrindale Drive VIC Croydon 3136 Australia
Telephone	+61 3 8761 1900
Fax	+61 3 8761 1955
Website	https://www.autoklene.com/msds/
Email	Not Available
mergency telephone numbe	
Association / Organisation	Not Available
Emergency telephone numbers	131 126 (Poisons Information Centre)
Other emergency telephone numbers	0408 406 968 (Mark Adams mobile)

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS

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

Poisons Schedule	S5
[1] Classification	Flammable Liquid Category 2, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Specific target organ toxicity - repeated exposure Category 2, Aspiration Hazard Category 1, Chronic Aquatic Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI
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Label elements

GHS label elements Auto Klene Brake Klene Page 2 of 16

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Hazard statement(s)				
H225	Highly flammable liquid and vapour.			
H315	Causes skin irritation.			
H319	Causes serious eye irritation.			
H351	Suspected of causing cancer.			
H361	ected of damaging fertility or the unborn child.			
H336	May cause drowsiness or dizziness.			
H373	May cause damage to organs.			
H304	May be fatal if swallowed and enters airways.			
H411	Toxic to aquatic life with long lasting effects.			
AUH019	May form explosive peroxides			
Precautionary statement(s) P	Prevention			
P201	Obtain special instructions before use.			
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.			
P260	not breathe dust/fume/gas/mist/vapours/spray.			
P271	se only outdoors or in a well-ventilated area.			
P281	e personal protective equipment as required.			
P240	Ground/bond container and receiving equipment.			
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.			
Precautionary statement(s) R	Response			
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.			
P308+P313	IF exposed or concerned: Get medical advice/attention.			
P331	Do NOT induce vomiting.			
P362	Take off contaminated clothing and wash before reuse.			
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.			
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.			
Precautionary statement(s) S	Storage			
P403+P235	Store in a well-ventilated place. Keep cool.			
P405	Store locked up.			
P403+P233	Store in a well-ventilated place. Keep container tightly closed.			
Precautionary statement(s) D	Disposal			
P501	Dispose of contents/container in accordance with local regulations.			
SECTION 3 COMPOSITIO	N / INFORMATION ON INGREDIENTS			

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
64742-89-8.	>30	naphtha petroleum, light aliphatic solvent
67-63-0	10-30	isopropanol
110-54-3	10-25	<u>n-hexane</u>

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100-41-4	0-10	ethylbenzene			
SECTION 4 FIRST	FAID MEASURES				

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. 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. Apply artificial respiration if not breathing, 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	 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. Joint to inse 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. 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

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. Treat symptomatically.

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

+ 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

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.

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

confirmatory test. For acute or short term repeated exposures to isopropanol:

- Rapid onset respiratory depression and hypotension indicates serious ingestions that require careful cardiac and respiratory monitoring together with immediate intravenous access.
- Rapid absorption precludes the usefulness of emesis or lavage 2 hours post-ingestion. Activated charcoal and cathartics are not clinically useful. Ipecac is most useful when given 30 mins. post-ingestion.
- There are no antidotes.
- Management is supportive. Treat hypotension with fluids followed by vasopressors.
- Watch closely, within the first few hours for respiratory depression; follow arterial blood gases and tidal volumes.
- Ice water lavage and serial haemoglobin levels are indicated for those patients with evidence of gastrointestinal bleeding.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

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 in the event of a fire. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. 			
Fire/Explosion Hazard	 Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include:, carbon dioxide (CO2), other pyrolysis products typical of burning organic material Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions. May emit clouds of acrid smoke WARNING: Long standing in contact with air and light may result in the formationof potentially explosive peroxides. 			

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

	► Control personal contact with the substance, by using protective equipment.
	 Contain and absorb small quantities with vermiculite or other absorbent material.
	▶Wipe up.
	► Collect residues in a flammable waste container.
	▶ Clear area of personnel and move upwind.
	► Alert Fire Brigade and tell them location and nature of hazard.
	▶ May be violently or explosively reactive.
Major Spills	▶ Wear breathing apparatus plus protective gloves.
	▶ Prevent, by any means available, spillage from entering drains or water course.
	▶ Consider evacuation (or protect in place).
	▶No smoking, naked lights or ignition sources.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Minor Spills

Avoid breathing vapours and contact with skin and eyes.

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	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. ► 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.
	Contains low boiling substance: Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated
	appropriately. ► Check for bulging containers.
	▶ Vent periodically
	 Always release caps or seals slowly to ensure slow dissipation of vapours DO NOT allow clothing wet with material to stay in contact with skin
Safa handling	The substance accumulates peroxides which may become hazardous only if it evaporates or is distilled or otherwise treated to concentrate the
Safe handling	peroxides. The substance may concentrate around the container opening for example.
	 Purchases of peroxidisable chemicals should be restricted to ensure that the chemical is used completely before it can become peroxidised. A responsible person should maintain an inventory of peroxidisable chemicals or annotate the general chemical inventory to indicate which chemicals are subject to peroxidation. An expiration date should be determined. The chemical should either be treated to remove peroxides or
	disposed of before this date. ▶ The person or laboratory receiving the chemical should record a receipt date on the
	bottle. ► Avoid all personal contact, including inhalation.
	► Wear protective clothing when risk of exposure occurs.
	► Use in a well-ventilated area.
	 Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked.
	► Avoid smoking, naked lights, heat or ignition sources.
	► When handling, DO NOT eat, drink or smoke.
	► Store in original containers in approved flame-proof area.
	 No smoking, naked lights, heat or ignition sources. DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
Other information	• Keep containers securely sealed.
	• Store away from incompatible materials in a cool, dry well ventilated area.
	 Protect containers against physical damage and check regularly for leaks. Observe manufactured attended and long divergence detices contained within this CDC.
Conditions for safe storage,	Observe manufacturer's storage and handling recommendations contained within this SDS. including any incompatibilities
	▶ Packing as supplied by manufacturer.
	▶ Plastic containers may only be used if approved for flammable liquid. ▶
	Check that containers are clearly labelled and free from leaks.
	For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure.
	For materials with a viscosity of at least 2680 cSt. (23 deg. C)
Suitable container	► For manufactured product having a viscosity of at least 250 cSt. (23 deg. C)
	Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii)
	Cans with friction closures and (iii) low pressure tubes and cartridges may be used. • Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with
	inner and outer packages
	In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.
	Isopropanol (syn: isopropyl alcohol, IPA):
	• forms ketones and unstable peroxides on contact with air or oxygen; the presence of ketones especially methyl ethyl ketone (MEK, 2-butanone) will accelerate the rate of peroxidation
	▶ reacts violently with strong oxidisers, powdered aluminium (exothermic), crotonaldehyde, diethyl aluminium bromide (ignition), dioxygenyl
	tetrafluoroborate (ignition/ ambient temperature), chromium trioxide (ignition), potassium-tert-butoxide (ignition), nitroform (possible explosion),
	oleum (pressure increased in closed container), cobalt chloride, aluminium triisopropoxide, hydrogen plus palladium dust (ignition), oxygen gas, phosgene, phosgene plus iron salts
	(possible explosion), sodium dichromate plus sulfuric acid (exothermic/ incandescence), triisobutyl
	aluminium reacts with phosphorus trichloride forming hydrogen chloride gas
Storage incompatibility	reacts, possibly violently, with alkaline earth and alkali metals, strong acids, strong caustics, acid anhydrides, halogens, aligniatic amines, aluminium isopropoxide, isocyanates, acetaldehyde, barium perchlorate (forms highly explosive perchloric ester compound), benzoyl peroxide, chromic acid,
	dialkylzincs, dichlorine oxide, ethylene oxide (possible explosion), hexamethylene diisocyanate (possible explosion), hydrogen peroxide
	(forms explosive compound), hypochlorous acid, isopropyl chlorocarbonate, lithium aluminium hydride, lithium tetrahydroaluminate, nitric acid, nitrogen dioxide, nitrogen tetraoxide (possible explosion), pentafluoroguanidine, perchloric acid (especially hot), permonosulfuric acid,
	phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium, trinitromethane + attacks some plastics, rubber and coatings
	▶ reacts with metallic aluminium at high temperature
	▶ may generate electrostatic charges For alkyl aromatics:
	The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation
	at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring.
	Following reaction with oxygen and under the influence of sunlight, a hydroperoxide at the alpha-position to the aromatic ring, is the primary oxidation product formed (provided a hydrogen atom is initially available at this position) - this product is often short-lived but may be stable
	dependent on the nature of the aromatic substitution; a secondary C-H bond is more easily attacked than a primary C-H bond whilst a tertiary C-
	H bond is even more susceptible to attack by oxygen
	 Monoalkylbenzenes may subsequently form monocarboxylic acids; alkyl naphthalenes mainly produce the corresponding naphthalene carboxylic acids.
	• Oxidation in the presence of transition metal salts not only accelerates but also selectively decomposes the hydroperoxides.
	Hock-rearrangement by the influence of strong acids converts the hydroperoxides to hemiacetals. Peresters formed from the hydroperoxides
	 undergo Criegee rearrangement easily. Alkali metals accelerate the oxidation while CO2 as co-oxidant enhances the selectivity.
	Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising
	agents. Aromatics can react exothermically with bases and with diazo compounds.
	Continued

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Alcohols are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and

reducing agents.

reacts, possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen react with strong acids, strong caustics, aliphatic amines, isocyanates, acetaldehyde, benzoyl peroxide, chromic acid, chromium oxide, dialkylzincs,

dichlorine oxide, ethylene oxide, hypochlorous acid, isopropyl chlorocarbonate, lithium tetrahydroaluminate, nitrogen dioxide, pentafluoroguanidine, phosphorus halides, phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium should not be

heated above 49 deg. C. when in contact with aluminium equipment

Secondary alcohols and some branched primary alcohols may produce potentially explosive peroxides after exposure to light and/ or heat.

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	naphtha petroleum, light aliphatic solvent	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	isopropanol	Isopropyl alcohol	983 mg/m3 / 400 ppm	1230 mg/m3 / 500 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	ethylbenzene	Ethyl benzene	434 mg/m3 / 100 ppm	543 mg/m3 / 125 ppm	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
naphtha petroleum, light aliphatic solvent	Rubber solvent; (Naphtha (petroleum) light aliphatic)		264 ppm	1700 ppm	10000 ppm
isopropanol	Isopropyl alcohol		400 ppm	400 ppm	12000 ppm
n-hexane	Hexane		300 ppm	Not Available	Not Available
ethylbenzene	Ethyl benzene		Not Available	Not Available	Not Available
Ingredient	Original IDLH Revised IDLH				
naphtha petroleum, light aliphatic solvent	Not Available	Not Available			
isopropanol	12,000 ppm	2,000 [LEL] ppm			
n-hexane	5,000 ppm	1,100 [LEL] ppm			
ethylbenzene	2,000 ppm 8		800 [LEL] ppm		
Exposure controls					

CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear 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: Appropriate engineering Process controls which involve changing the way a job activity or process is done to reduce the risk. controls 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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Personal 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 Eye and face wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and protection 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 Skin protection See Hand protection below • Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber Hands/feet The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to protection 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

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	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. Important factors in the selection of gloves include:	
	▶ frequency and duration of contact, ▶	
	chemical resistance of glove material,	
	▶ glove thickness and	
	▶ dexterity	
	Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).	
	• When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240	
	minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.	
	When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374,	
	AS/NZS 2161.10.1 or national equivalent) is recommended.	
Body protection	See Other protection below	
	▶ Overalls.	
	▶ PVC Apron.	
	► PVC protective suit may be required if exposure severe.	
	▶ Eyewash unit.	
	► Ensure there is ready access to a safety shower.	
Other protection	Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.	
	For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).	
	Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive	
	compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from	
	the body to reduce the	
	possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in	
	lockers does to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of	

Thermal hazards Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computergenerated* selection: Auto Klene Brake Klene

Not Available

work to their homes and return.

Material	CPI
BUTYL	С
IAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
ITRILE	С
ITRILE+PVC	С
E/EVAL/PE	С
VA	С
VC	С
ARANEX-23 2-PLY	С
EFLON	С
ITON	С
(ITON/CHLOROBUTYL	С

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-P 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	AX-AUS / Class 1 P2	-	AX-PAPR-AUS / Class 1 P2
up to 25 x ES	Air-line*	AX-2 P2	AX-PAPR-2 P2
up to 50 x ES	-	AX-3 P2	-
50+ 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)

* CPI - Chemwatch Performance Index

A: Best Selection

Information on basic physical and chemical properties

Appearance

Clear colourless liquid with a sweet paraffinic solvent odour; does not mix with water.

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Physical state Liquid Relative density (Water = 0.68 1) Partition coefficient n-Odour Not Available Not Available octanol / water Auto-ignition Odour threshold Not Available temperature 280 (°C) Decomposition Not Applicable Not Available pH (as supplied) temperature point Melting 1 . freezing Not Available Viscosity (cSt) Not Available point (°C) Initial boiling point and boiling range (°C) Molecular weight 47-150 Not Applicable (g/mol) <-30 TCC Not Available Flash point (°C) Taste Evaporation rate Explosive Not Available Not Available properties Flammability HIGHLY FLAMMABLE. Oxidising Not Available properties Surface Tension (dyn/cm or mN/m) Upper Explosive Limit Not Available 7.5 (%) Lower Explosive Limit 1 Volatile Component (%vol) >99 (%) Vapour pressure 34 @ 15 degC Gas group Not Available (kPa) Solubility in water Not Applicable Immiscible pH as a solution (g/L) . (1%) Vapour density (Air = 3.9 VOC g/L Not Available

1) SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
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 TOXICOLOG	GICAL INFORMATION

Information on toxicological effects

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Inhaled	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. Aliphatic alcohols with more than 3-carbons cause headache, dizziness, drowsiness, muscle weakness and delirium, central depression, coma, seizures and behavioural changes. Secondary respiratory depression and failure, as well as low blood pressure and irregular heart rhythms, may follow. Inhalation hazard is increased at higher temperatures. Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. 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. When humans were exposed to the 100 and 200 ppm for 8 hours about 45-65% is retained in the body. Only traces of unchanged ethyl benzene are excreted in expined air following termination of inhaliton exposure. Humans exposed to concentrations of 23-85 ppm excreted most of the retained dose in the urine (mainly as metabolites). Guinea pigs that died from exposure had intense congestion of the lungs and generalised visceral hyperaemia. Rats exposed for three days at 8700 mg/m3 (2000 ppm) showed changes in the levels of dopamine and noradrenaline in various parts of the brain. The odour of isopropanol may give some warning of exposure, but odour fatigue may occur. Inhalation of isopropanol may produce irritation of the
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Accidental ingestion of the material may be damaging to the health of the individual. Overexposure to non-ring alcohols causes nervous system symptoms. These include headache, muscle weakness and inco-ordination, giddiness, confusion, delirium and coma. Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions. Following ingestion, a single exposure to isopropyl alcohol produced lethargy and non-specific effects such as weight loss and irritation. Ingestion of near-lethal doses of isopropanol produces histopathological changes of the stomach, lungs and kidneys, incoordination, lethargy, gastrointestinal tract irritation, and inactivity or anaesthesia. Swallowing 10 ml. of isopropanol may cause serious injury; 100 ml. may be fatal if not promptly treated. The adult single lethal doses is approximately 250 ml. The toxicity of isopropanol is twice that of ethanol and the symptoms of intoxication appear to be similar except for the absence of an initial euphoric effect; gastritis and vomiting are more prominent.
Skin Contact	The material may cause mild but significant 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. 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. Most liquid alcohols appear to act as primary skin irritants in humans. Significant percutaneous absorption occurs in rabbits but not apparently in man. Open cuts, abraded or irritated skin should not be exposed to this material The material may accentuate any pre-existing dermatitis condition 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. The mean rate of absorption of liquid ethyl benzene applied to 17.3 cm2 area of the forearm of seven volunteers for 10-15 minutes was determined to be 38 mg/cm2/hr. Immersion of the whole hand in aqueous solutions of ethyl benzene (112-156 mg/l) for 1 hour yielded mean absorption rates of 118 and 215.7
	ug/cm2/hr. The rate of absorption is thus greater than that of aniline, benzene, nitrobenzene, carbon disulfide and styrene. Repeated application of the undiluted product to the abdominal area of rabbits (10-20 applications over 2-4 weeks) resulted in erythema, oedema and superficial necrosis. The material did not appear to be absorbed through the skin in sufficient quantity to produce outward signs of toxicity. 511ipa
Eye	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. Two drops of the ethylbenzene in to the conjunctival sac produced only slight irritation of the conjunctival membrane but no corneal injury. Isopropanol vapour may cause mild eye irritation at 400 ppm. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision. Limited evidence or practical experience suggests, 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).

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	There has been concern that this material can cause cance			
	There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Harmful: danger of serious damage to health by prolonged exposure through inhalation.			
	I his material can cause serious damage it one is exposed severe defects.	to it for long periods. It can be assumed that it contains a substance which can pro-		
	Ample evidence from experiments exists that there is a susp Based on experience with animal studies, exposure to the	bicion this material directly reduces fertility. material may result in toxic effects to the development of the foetus, at levels which do		
	cause significant toxic effects to the mother.			
		d may cause some concern following repeated or long-term occupational exposure. ons may produce stupor with dizziness, weakness and visual disturbance, weight loss		
		ure may result in drying and cracking and redness of the skin. ene of 0.06 mg/l (14 ppm) reported headaches and irritability and tired quickly. Functi		
	nervous system disturbances were found in some workers e	employed for over 7 years whilst other workers had enlarged livers.		
Chronic	Prolonged and repeated exposure may be harmful to the car may also cause drying, scaling and blistering of the skin.	entral nervous system (CNS), upper respiratory tract, and/ or may cause liver disorde		
		days a week for 104 and 103 weeks respectively showed a statistically significant nours in male mice, and liver tumours in female mice exposed to 750 ppm ethylbenze		
	Chronic inhalation or skin exposure to n-hexane may cause	damage to nerve ends in extremities, e.g. finger, toes with loss of		
	sensation. Long term or repeated ingestion exposure of isor	propanol may produce incoordination, lethargy and reduced weight gain.		
		narcosis, incoordination and liver degeneration. Animal data show developmental effe		
	cultures or in animals.	t animals. Isopropanol does not cause genetic damage in bacterial or mammalian cel		
	There are inconclusive reports of human sensitisation from	skin contact with isopropanol. Chronic alcoholics are more tolerant of systemic isopro		
	than are persons who do not consume alcohol; alcoholics ha	ave survived as much as 500 ml. of 70% isopropanol.		
	Chronic solvent inhalation exposures may result in nervous TOXICITY	IRRITATION		
Auto Klene Brake Klene				
	Not Available	Not Available		
	TOXICITY	IRRITATION		
naphtha petroleum, light aliphatic solvent	[4]			
	Dermal (rabbit) LD50: >1900 mg/kg	Not Available		
	Oral (rat) LD50: >4500 mg/kg			
	TOXICITY	IRRITATION		
icontononal				
isopropanol		Eye (rabbit): 10 mg - moderate		
	Inhalation (rat) LC50: 72.6 mg/L/4h	Eye (rabbit): 100 mg - SEVERE		
	Oral (rat) LD50: 5000 mg/kg	Eye (rabbit): 100mg/24hr-moderate Skin (rabbit): 500 mg - mild		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
n-hexane	Dermal (rabbit) LD50: >3301.5 mg/kg	Eye(rabbit): 10 mg - mild		
	Inhalation (rat) LC50: 48000 ppm/44			
	Oral (rat) LD50: 15847.2 mg/kl			
	Oral (rat) LD50: 15847.2 mg/kg	I		
	TOXICITY	IRRITATION		
ethylbenzene	Dermal (rabbit) LD50: ca.15432.6 mg/kg	Eye (rabbit): 500 mg - SEVERE		
	Inhalation (mouse) LC50: 35.5 mg/L/2H	Skin (rabbit): 15 mg/24h mild		
	Inhalation (rat) LC50: 55 mg/L/2H			
	Oral (rat) LD50: 3500 mg/kgd			
Legend:	 Value obtained from Europe ECHA Registered Substance data extracted from RTECS - Register of Toxic Effect of che 	es - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise spe mical Substances		
	for petroleum:			
	This product contains benzene which is known to cause ac	ute myeloid leukaemia and n-hexane which has been shown to metabolize to compo		
	which are neuropathic.			
NAPHTHA PETROLEUM,	This product contains toluene. There are indications from ar	imal studies that prolonged exposure to high concentrations of toluene may lead to		
NAPHTHA PETROLEUM, LIGHT ALIPHATIC SOLVENT	This product contains toluene. There are indications from ar hearing loss. This product contains ethyl benzene and naphthalene from			

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	Mutagenicity: There is a large database of mutagenicity studies on gasoline and gasoline and give	blending streams, which use a wide variety of endpoints		
	predominantly negative results. All in vivo studies in animals and recent studies in exposed shown negative	humans (e.g. petrol service station attendants) have		
	results in mutagenicity assays. Isopropanol is irritating to the eyes, nose and throat but generally not to the skin. Prolonged high dose exposure may also produce depression of			
	the central nervous system and drowsiness. Few have reported skin irritation. It can be swallowing is common particularly among alcoholics or suicide victims and also leads to faint			
	In the absence of unconsciousness, recovery usually occurred. Repeated doses may dama	age the kidneys.		
ISOPROPANOL	The material may cause skin irritation after prolonged or repeated exposure and may produce vesicles, scaling and thickening of the skin.	ice on contact skin redness, swelling, the production of		
	The substance is classified by IARC as Group 3:			
	NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.			
N-HEXANE	E The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce			
	conjunctivitis. The material may produce severe irritation to the eve causing pronounced inflammation. Re	epeated or prolonged exposure to irritants may produce		
	conjunctivitis.			
	The material may cause skin irritation after prolonged or repeated exposure and may produce vesicles, scaling and thickening of the skin.	ice on contact skin redness, swelling, the production of		
	Ethylbenzene is readily absorbed when inhaled, swallowed or in contact with the skin. It is o			
ETHYI BENZENE	urine. It may irritate the skin, eyes and may cause hearing loss if exposed to high doses. Lo and lungs, including a	ong Term exposure may cause damage to the kidney, liver		
	tendency to cancer formation, according to animal testing. There is no research on its effect	t on sex organs and unborn babies.		
	NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to c DNA.			
	WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcin			
	Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnorm	alities (musculoskeletal system) recorded.		
Acute Toxicity	Carcinogenicity	*		
Skin Irritation/Corrosion	Reproductivity	~		
Serious Eye	STOT - Single Exposure	✓		
Damage/Irritation				
Respiratory or Skin sensitisation	STOT - Repeated Exposure	×		
Mutagenicity	Aspiration Hazard	*		
	Legend: 🗙	- Data available but does not fill the criteria for		
	×	classification		

- Data required to make classification available

- Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity					
Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
naphtha petroleum, light aliphatic solvent	EC50	72	Algae or other aquatic plants	=6.5mg/L	1
naphtha petroleum, light aliphatic solvent	NOEC	72	Algae or other aquatic plants	<0.1mg/L	1
isopropanol	EC50	384	Crustacea	42.389mg/L	3
isopropanol	EC50	96	Algae or other aquatic plants	993.232mg/L	3
isopropanol	LC50	96	Fish	183.844mg/L	3
isopropanol	NOEC	5760	Fish	0.02mg/L	4
isopropanol	EC50	48	Crustacea	12500mg/L	5
n-hexane	EC50	96	Algae or other aquatic plants	3.089mg/L	3
n-hexane	EC50	3	Algae or other aquatic plants	0.00809998mg/L	4
n-hexane	EC50	48	Crustacea	0.00387765mg/L	4
n-hexane	LC50	96	Fish	0.0025003mg/L	4

Legend:

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ethylbenzene EC50 3 Algae or other aquatic plants 0.0509616mg/L 4 ethylbenzene EC50 48 Crustacea 0.0021234mg/L 4 ethylbenzene EC50 96 Algae or other aquatic plants 3.6mg/L 4 ethylbenzene LC50 96 Fish 0.0043mg/L 4 ethylbenzene NOEC 168 Crustacea 0.96mg/L 2 Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite

V3.12 -Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

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

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

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

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 Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances' which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization. Terrestrial Fate: BTEX compounds have the potential to move through soil and contaminate ground water, and their vapors are highly flammable and explosive. Ecotoxicity - Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus. The order of most toxic to least in a study using grass shrimp and brown shrimp was dimethylnaphthalenes > methylnaphthalenes >naphthalenes. Anthrcene is a phototoxic PAH. UV light greatly increases the toxicity of anthracene to bluegill sunfish. Do NOT discharge into sewer or waterways.

Persistence and degradability

rersistence and degradabl		
Ingredient	Persistence: Water/Soil	Persistence: Air
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)
n-hexane	LOW	LOW
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
Bioaccumulative potential		
Ingredient	Bioaccumulation	
isopropanol	LOW (LogKOW = 0.05)	
n-hexane	MEDIUM (LogKOW = 3.9)	
ethylbenzene	LOW (BCF = 79.43)	
Mobility in soil		
Ingredient	Mobility	
isopropanol	HIGH (KOC = 1.06)	
n-hexane	LOW (KOC = 149)	
ethylbenzene	LOW (KOC = 517.8)	
SECTION 13 DISPOSAL	CONSIDERATIONS	

Waste treatment methods

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Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. 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. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration

Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

Labels Required			
	PL/MAABLE 3		
Marine Pollutant			
HAZCHEM	3YE		
Land transport (ADG)			
UN number	1268		
Packing group	II		
UN proper shipping name	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. (see 3.2.5 for relevant [AUST.] entries) (contains naphtha petroleum, light aliphatic solvent)		
Environmental hazard	Not Applicable		
Transport hazard class(es)	Class 3 Subrisk Not Applicable		
Special precautions for user	Special provisions 363 Limited quantity 1 L		
Air transport (ICAO-IATA / D	GR)		
UN number	1268		
Packing group	Н		
UN proper shipping name	Petroleum distillates, n.o.s.; Petroleum products, n.o.s. (contains naphtha petroleum, light aliphatic solvent)		
Environmental hazard	Not Applicable		

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Transport hazard class(es)	ICAO/IATA Class	3			
	ICAO / IATA Subrisk	Not Applicable			
	ERG Code	ЗH			
	Special provisions		A3		
	Cargo Only Packing Instructions		364		
	Cargo Only Maximum Qty / Pack		60 L		
Special precautions for	Passenger and Cargo Packing Instructions		353		
user	Passenger and Cargo Maximum Qty / Pack		5L		
	Passenger and Cargo Limited Quantity Packing Instructions Y341				
	Passenger and Cargo Limited Maximum Qty / Pack 1 L				
Sea transport (IMDG-Code / G	GVSee)				
UN number	1268				
Packing group	II				
UN proper shipping name	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. (contains naphtha petroleum, light aliphatic solvent)				
Environmental hazard	Marine Pollutant				
	IMDG Class 3				
Transport hazard class(es)	IMDG Subrisk Not Applicable				
Special precautions for user		F-E, S-E 363 1 L			
user	Limited Quantities	1L			

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

Australia Exposure Standards	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs			
NAPHTHA PETROLEUM, LIGHT ALIPHATIC SOLVENT(64742-89-8.) IS FOUND ON THE FOLLOWING REGULATORY LISTS				
	Australia Hazardous Substances Information System - Consolidated Lists			
	International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft			
ISOPROPANOL(67-63-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS				
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)			
Australia Hazardous Substances Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs			
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				

ETHYLBENZENE(100-41-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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Australia Exposure Standards

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory	Status	
Australia - AICS	Y	
Canada - DSL	Y	
Canada - NDSL	N (naphtha petroleum, light aliphatic solvent; ethylbenzene; n-hexane; isopropanol)	
China - IECSC	Y	
Europe - EINEC / ELINCS / NLP	Y	
Japan - ENCS	N (naphtha petroleum, light aliphatic solvent)	
Korea - KECI	Y	
New Zealand - NZIoC	Y	
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 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。

- 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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