

ALPHA CHEMICALS PTY LTD

Chemwatch: **4764-93** Version No: **6.1.1.1**

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 4

Issue Date: **28/03/2019** Print Date: **30/05/2019** S.GHS.AUS.EN

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

Product Identifier

Product name	Alufinish Alficolor Repair Spray	
Synonyms	Not Available	
Proper shipping name	AEROSOLS	
Other means of identification	Not Available	

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

Relevant identified uses

Application is by spray atomisation from a hand held aerosol pack Lacquer aerosol.

Details of the supplier of the safety data sheet

Registered company name	ALPHA CHEMICALS PTY LTD	
Address	4 ALLEN PLACE WETHERILL PARK NSW 2099 Australia	
Telephone	1 (0)2 9982 4622	
Fax	Not Available	
Website	~	
Email	shane@alphachem.com.au	

Emergency telephone number

Association / Organisation	Not Available	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	61 (0)418 237 771	+61 1800 951 288
Other emergency telephone numbers	Not Available	+61 2 9186 1132

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

CHEMWATCH HAZARD RATINGS

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

Poisons Schedule	lule Not Applicable	
Classification [1]	Aerosols Category 1, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (narcotic effects)	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)





SIGNAL WORD

DANGER

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H222	Extremely flammable aerosol.	
H319	auses serious eye irritation.	
H336	May cause drowsiness or dizziness.	
AUH044	Risk of explosion if heated under confinement.	
AUH066	Repeated exposure may cause skin dryness and cracking.	

Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P211	Do not spray on an open flame or other ignition source.	
P251	Pressurized container: Do not pierce or burn, even after use.	
P271	Use only outdoors or in a well-ventilated area.	
P261	Avoid breathing mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

Precautionary statement(s) Response

P305+P351+P338	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	P312 Call a POISON CENTER or doctor/physician if you feel unwell.	
P337+P313	P337+P313 If eye irritation persists: Get medical advice/attention.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	

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	P403+P233 Store in a well-ventilated place. Keep container tightly closed.	

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
67-64-1	25-<50	<u>Acetone</u>
123-86-4	10-<25	n-butyl acetate
108-65-6	5-<10	propylene glycol monomethyl ether acetate, alpha-isomer
115-10-6	10-<25	dimethyl ether
106-97-8.	10-<25	<u>butane</u>
74-98-6	10-<25	propane

SECTION 4 FIRST AID MEASURES

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

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Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

SMALL FIRE:

- ► Water spray, dry chemical or CO2
- LARGE FIRE:
- Water spray or fog.

Special hazards arising from the substrate or mixture

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. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. 		
Fire/Explosion Hazard	 Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition with violent container rupture. Aerosol cans may explode on exposure to naked flames. Rupturing containers may rocket and scatter burning materials. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions. 		

SECTION 6 ACCIDENTAL RELEASE MEASURES

HAZCHEM

Personal precautions, protective equipment and emergency procedures

Not Applicable

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

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. Wipe up. If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely.
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. Prevent, by any means available, spillage from entering drains or water courses No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb vapour.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

▶ DO NOT allow clothing wet with material to stay in contact with skin ► Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area. Safe handling

Prevent concentration in hollows and sumps.

- DO NOT enter confined spaces until atmosphere has been checked.
- ▶ Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials.
- ► When handling, **DO NOT** eat, drink or smoke.

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- 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. Other information
 - ► Keep containers securely sealed. Contents under pressure.
 - Store away from incompatible materials.
 - Store in a cool, dry, well ventilated area.
 - ▶ Avoid storage at temperatures higher than 40 deg C.

Conditions for safe storage, including any incompatibilities

Suitable container

- ► Aerosol dispenser.
- ► Check that containers are clearly labelled.
- Storage incompatibility
- Avoid reaction with oxidising agents Avoid strong acids, bases.
- ▶ Compressed gases may contain a large amount of kinetic energy over and above that potentially available from the energy of reaction produced by the gas in chemical reaction with other substances

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	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	Not Available
Australia Exposure Standards	n-butyl acetate	n-Butyl acetate	150 ppm / 713 mg/m3	950 mg/m3 / 200 ppm	Not Available	Not Available
Australia Exposure Standards	propylene glycol monomethyl ether acetate, alpha-isomer	1-Methoxy-2-propanol acetate	50 ppm / 274 mg/m3	548 mg/m3 / 100 ppm	Not Available	Not Available
Australia Exposure Standards	dimethyl ether	Dimethyl ether	400 ppm / 760 mg/m3	950 mg/m3 / 500 ppm	Not Available	Not Available
Australia Exposure Standards	butane	Butane	800 ppm / 1900 mg/m3	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-butyl acetate	Butyl acetate, n-	Not Available	Not Available	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	Propylene glycol monomethyl ether acetate, alpha-isomer; (1-Methoxypropyl-2-acetate)	Not Available	Not Available	Not Available
dimethyl ether	Methyl ether; (Dimethyl ether)	3,000 ppm	3800 ppm	7200 ppm
butane	Butane	Not Available	Not Available	Not Available
propane	Propane	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
Acetone	2,500 ppm	Not Available
n-butyl acetate	1,700 ppm	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	Not Available	Not Available
dimethyl ether	Not Available	Not Available
butane	Not Available	1,600 ppm
propane	2,100 ppm	Not Available

Exposure 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:

Appropriate engineering controls 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. 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.

General exhaust is adequate under normal conditions.

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 wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the Eye and face protection class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly Skin protection See Hand protection below ▶ No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: Hands/feet protection Wear general protective gloves, eg. light weight rubber gloves. ► For potentially heavy exposures: ▶ Wear chemical protective gloves, eg. PVC. and safety footwear. **Body protection** See Other protection below No special equipment needed when handling small quantities. OTHERWISE: Overalls. Skin cleansing cream. Eyewash unit. Other protection ▶ Do not spray on hot surfaces ► 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.

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:

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Material	СРІ
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	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON/BUTYL	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 AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	AX-AUS / Class 1	-	AX-PAPR-AUS / Class 1
up to 25 x ES	Air-line*	AX-2	AX-PAPR-2
up to 50 x ES	-	AX-3	-
50+ x ES	-	Air-line**	-

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

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

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Supplied as an aerosol pack. Contents under PRESSURE. Contains highly flammable hydrocarbon propellant. |Coloured highly flammable liquid aerosol with a characteristic odour; does not mix with water.

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Physical state	Liquid	Relative density (Water = 1)	0.79 @ 20 deg.C
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-81 (propellant)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	18.6	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.2	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	830 @ 20 deg.C	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	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
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Inhaled

Skin Contact

Chronic

Information on	toxicological	effects
minorimation on	toxioological	000.0

Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.

Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

Inhalation of 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.

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

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

WARNING: Intentional misuse by concentrating/inhaling contents may be lethal

Effects of exposure to acetone by inhalation include central nervous system depression, light-headedness, unintelligible speech, inco-ordination, stupor, low blood pressure, fast heart rate, metabolic acidosis, high blood sugar and ketosis. Rarely, there may be convulsions and death of kidney tubules.

Accidental ingestion of the material may be damaging to the health of the individual. Overexposure is unlikely in this form. Ingestion

Not normally a hazard due to physical form of product.

Considered an unlikely route of entry in commercial/industrial environments

Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.

Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.

Spray mist may produce discomfort

Open cuts, abraded or irritated skin should not be exposed to this material

There is some evidence to suggest that 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.

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

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

There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Main route of exposure to the gas in the workplace is by inhalation.

Workers exposed to acetone for long periods showed inflammation of the airways, stomach and small bowel, attacks of giddiness and loss of strength. Exposure to acetone may enhance the liver toxicity of chlorinated solvents.

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TOXICITY	IRRITATION
Not Available	Not Available

TOXICITY

Dermal (rabbit) LD50: =20 mg/kg^[2]

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IRRITATION

Eye (human): 500 ppm - irritant

	Inhalation (rat) LC50: 100.2 mg/l/8hr ^[2]	Eye (rabbit): 20n	ng/24nr -moderate
	Oral (rat) LD50: 1800-7300 mg/kg ^[2]	Eye (rabbit): 3.9	5 mg - SEVERE
Acetone		Eve: adverse eff	ect observed (irritating) ^[1]
		Skin (rabbit): 500	
		Skin (rabbit):395	img (open) - mild
		Skin: no adverse	effect observed (not irritating) ^[1]
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 3200 mg/kg ^[2]	Eye (human): 30	00 mg
	Inhalation (rat) LC50: 1.802 mg/l4 h ^[1]	Eye (rabbit): 20 i	mg (open)-SEVERE
n-butyl acetate	Oral (rat) LD50: =10700 mg/kg ^[2]	Eye (rabbit): 20 r	ng/24h - moderate
		Eye: no adverse	effect observed (not irritating) ^[1]
) mg/24h-moderate
		Skin: no adverse	effect observed (not irritating) ^[1]
	TOXICITY	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	-	effect observed (not irritating) ^[1]
propylene glycol monomethyl ether acetate, alpha-isomer	Inhalation (rat) LC50: 6510.0635325 mg/l/6h ^[2]	i	e effect observed (not irritating) ^[1]
	Oral (rat) LD50: 5155 mg/kg ^[1]	CMIT. NO adverse	Check observed (not imitating)
dimethyl ether	TOXICITY	IRRITATION	
	Inhalation (rat) LC50: 309 mg/l/4H ^[2]	Not Available	
	TOXICITY	IRRITATION	
hutana	le1	Not Available	
butane	Inhalation (rat) LC50: 658 mg/l/4H ^[2]	Not Available	
	Inhalation (rat) LC50: 658 mg/l/4H ^{L2} I TOXICITY	IRRITATION	
butane		<u>'</u>	
	TOXICITY	IRRITATION Not Available Acute toxicity 2.* Value obtained	from manufacturer's SDS. Unless otherwise specified
propane	TOXICITY Inhalation (rat) LC50: >49942.95 mg/l/15M ^[2] 1. Value obtained from Europe ECHA Registered Substances -	IRRITATION Not Available Acute toxicity 2.* Value obtained	from manufacturer's SDS. Unless otherwise specified
propane	TOXICITY Inhalation (rat) LC50: >49942.95 mg/l/15M ^[2] 1. Value obtained from Europe ECHA Registered Substances - data extracted from RTECS - Register of Toxic Effect of chemic	IRRITATION Not Available Acute toxicity 2.* Value obtained al Substances or sensitizer, but it removes fat fi	rom the skin, and it also irritates the eye. Animal testing
propane Legend:	Inhalation (rat) LC50: >49942.95 mg/l/15M ^[2] 1. Value obtained from Europe ECHA Registered Substances -data extracted from RTECS - Register of Toxic Effect of chemic For acetone: The acute toxicity of acetone is low. Acetone is not a skin irritant shows acetone may cause macrocytic anaemia. Studies in huma	IRRITATION Not Available Acute toxicity 2.* Value obtained al Substances or sensitizer, but it removes fat fins have shown that exposure to a	rom the skin, and it also irritates the eye. Animal testing acetone at a level of 2375 mg/cubic metre has not caused
propane Legend: ACETONE	Inhalation (rat) LC50: >49942.95 mg/l/15M ^[2] 1. Value obtained from Europe ECHA Registered Substances - data extracted from RTECS - Register of Toxic Effect of chemic For acetone: The acute toxicity of acetone is low. Acetone is not a skin irritant shows acetone may cause macrocytic anaemia. Studies in huma neurobehavioural deficits. The material may produce severe irritation to the eye causing pr	IRRITATION Not Available Acute toxicity 2.* Value obtained al Substances or sensitizer, but it removes fat fins have shown that exposure to a concurred inflammation. Repeate either (PnB); dipropylene glycol nat propylene glycol-based eithers implicate propylene glycol-based eithers implicated with reproductive and development of all the PGEs (which is thermound in contrast, beta-isomers are able of all the productive toxicity, but of all the productive toxicity, but of all the productive toxicity in contrast, beta-isomers are able of the productive toxicity of the productive toxicity and productive toxicity are associated with birth defection and productive toxicity are associated with birth defection and productive toxicity of the productive toxicity but the productive toxicity and the productive to	rom the skin, and it also irritates the eye. Animal testing acetone at a level of 2375 mg/cubic metre has not caused of or prolonged exposure to irritants may produce do reprolonged exposure to irritants may produce do reprolonged exposure to irritants may produce do reprolonged exposure to irritants may produce are less toxic than some ethers of the ethylene series, such as adverse effects on the reproductive organs, thropylene glycol ethers. In the ethylene series, metabolist tall toxicities of the lower molecular weight homologues is can cause haemolysis in sensitive species, also throug dynamically favoured during manufacture of PGEs) is a to form the alkoxypropionic acids and these are linked its but lower exposures have not been shown to cause is alpha isomer. Hazard appears low, but emphasizes the way associated with a teratogenic response in rabbits ses only 10% of the commercial material, the remaining
PROPYLENE GLYCOL MONOMETHYL ETHER	Inhalation (rat) LC50: >49942.95 mg/l/15M ^[2] 1. Value obtained from Europe ECHA Registered Substances data extracted from RTECS - Register of Toxic Effect of chemics For acetone: The acute toxicity of acetone is low. Acetone is not a skin irritant shows acetone may cause macrocytic anaemia. Studies in human neurobehavioural deficits. The material may produce severe irritation to the eye causing pronjunctivitis. For propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl acetate (DPMA) and tripropylene glycol ethers has shown the common toxicities associated with the lower molecular weight he developing embryo and foetus, blood or thymus gland, are not sof the terminal hydroxyl group produces and alkoxyacetic acid. The ethylene series are due specifically to the formation of metho Longer chain homologues in the ethylene series are not associa formation of an alkoxyacetic acid. The predominant alpha isome secondary alcohol incapable of forming an alkoxypropionic acid. birth defects (and possibly, haemolytic effects). Animal testing shows that high concentrations (for example, 0.5° adverse effects. The beta isomer of PGMEA comprises only 10% of the commenced for care in handling this chemical. A BASF report (in ECETOC) showed that inhalation exposure to tut exposure to 145 ppm and 36 ppm had no adverse effects.	IRRITATION Not Available Acute toxicity 2.* Value obtained al Substances or sensitizer, but it removes fat fins have shown that exposure to a conounced inflammation. Repeate either (PnB); dipropylene glycol nat propylene glycol-based ethers implicately and development evacetic and ethoxyacetic acids, led with reproductive toxicity, but not all the PGEs (which is thermound in contrast, beta-isomers are able of all the PGEs (which is thermound in contrast, beta-isomers are able of a sessociated with birth defection in the property of t	rom the skin, and it also irritates the eye. Animal testing acetone at a level of 2375 mg/cubic metre has not caused of or prolonged exposure to irritants may produce the dor prolonged exposure to irritants may produce the dor prolonged exposure to irritants may produce the dor prolonged exposure to irritants may produce are less toxic than some ethers of the ethylene series, such as adverse effects on the reproductive organs, through the productive organs, through the productive of the lower molecular weight homologues is all toxicities of the lower molecular weight homologues is can cause haemolysis in sensitive species, also through dynamically favoured during manufacture of PGEs) is a ten form the alkoxypropionic acids and these are linked at but lower exposures have not been shown to cause is alpha isomer. Hazard appears low, but emphasizes the discontinuation of the commercial material, the remaining
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE, ALPHA-ISOMER	Inhalation (rat) LC50: >49942.95 mg/l/15M ^[2] 1. Value obtained from Europe ECHA Registered Substances data extracted from RTECS - Register of Toxic Effect of chemic For acetone: The acute toxicity of acetone is low. Acetone is not a skin irritant shows acetone may cause macrocytic anaemia. Studies in human neurobehavioural deficits. The material may produce severe irritation to the eye causing pronjunctivitis. For propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl acetate (DPMA) and tripropylene glycol ethers has shown the common toxicities associated with the lower molecular weight he developing embryo and foetus, blood or thymus gland, are not sof the terminal hydroxyl group produces and alkoxyacetic acid. To the ethylene series are due specifically to the formation of metho Longer chain homologues in the ethylene series are not associate formation of an alkoxyacetic acid. The predominant alpha isome secondary alcohol incapable of forming an alkoxypropionic acid. birth defects (and possibly, haemolytic effects). Animal testing shows that high concentrations (for example, 0.5° adverse effects. The beta isomer of PGMEA comprises only 10% of the commenced for care in handling this chemical. A BASF report (in ECETOC) showed that inhalation exposure to tue exposure to 145 ppm and 36 ppm had no adverse effects. Ti 90% is alpha isomer. Hazard appears low but emphasizes the results and the property in the property of the property of the commenced for care in handling this chemical.	IRRITATION Not Available Acute toxicity 2.* Value obtained al Substances or sensitizer, but it removes fat fins have shown that exposure to a concurred inflammation. Repeate either (PnB); dipropylene glycol nat propylene glycol-based ethers implicate the commercial-grade price reproductive and developmen expectic and ethoxyacetic acids. Ited with reproductive toxicity, but for all the PGEs (which is thermound in contrast, beta-isomers are ableated in the productive in the productive toxicity in the productive in the productiv	from the skin, and it also irritates the eye. Animal testing acetone at a level of 2375 mg/cubic metre has not caused of or prolonged exposure to irritants may produce do r prolonged exposure to irritants may produce do r prolonged exposure to irritants may produce do r prolonged exposure to irritants may produce determined the street of the ethylene series. Such as adverse effects on the reproductive organs, the proposition of the lower molecular weight homologues in can cause haemolysis in sensitive species, also throug advantically favoured during manufacture of PGEs) is a set of form the alkoxypropionic acids and these are linked at should be but lower exposures have not been shown to cause is alpha isomer. Hazard appears low, but emphasizes the lower associated with a teratogenic response in rabbits ses only 10% of the commercial material, the remaining mical. [I.C.I.] *Shin-Etsu SDS
PROPANE ACETONE & N-BUTYL ACETATE	Inhalation (rat) LC50: >49942.95 mg/l/15M ^[2] 1. Value obtained from Europe ECHA Registered Substances data extracted from RTECS - Register of Toxic Effect of chemic For acetone: The acute toxicity of acetone is low. Acetone is not a skin irritant shows acetone may cause macrocytic anaemia. Studies in human neurobehavioural deficits. The material may produce severe irritation to the eye causing pronjunctivitis. For propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl acetate (DPMA) and tripropylene glycol ethers has shown the common toxicities associated with the lower molecular weight he developing embryo and foetus, blood or thymus gland, are not sof the terminal hydroxyl group produces and alkoxyacetic acid. To the ethylene series are due specifically to the formation of metho Longer chain homologues in the ethylene series are not associate formation of an alkoxyacetic acid. The predominant alpha isome secondary alcohol incapable of forming an alkoxypropionic acid. birth defects (and possibly, haemolytic effects). Animal testing shows that high concentrations (for example, 0.5° adverse effects. The beta isomer of PGMEA comprises only 10% of the commenced for care in handling this chemical. A BASF report (in ECETOC) showed that inhalation exposure to the texposure to 145 ppm and 36 ppm had no adverse effects. Ti 90% is alpha isomer. Hazard appears low but emphasizes the 1 No significant acute toxicological data identified in literature se.	IRRITATION Not Available Acute toxicity 2.* Value obtained al Substances or sensitizer, but it removes fat fins have shown that exposure to a concurred inflammation. Repeate either (PnB); dipropylene glycol nat propylene glycol-based ethers implicate the commercial-grade price reproductive and developmen expectic and ethoxyacetic acids. Ited with reproductive toxicity, but for all the PGEs (which is thermound in contrast, beta-isomers are ableated in the productive in the productive toxicity in the productive in the productiv	from the skin, and it also irritates the eye. Animal testing acetone at a level of 2375 mg/cubic metre has not caused of or prolonged exposure to irritants may produce do r prolonged exposure to irritants may produce do r prolonged exposure to irritants may produce do r prolonged exposure to irritants may produce determined the street of the ethylene series. Such as adverse effects on the reproductive organs, the proposition of the lower molecular weight homologues in can cause haemolysis in sensitive species, also throug advantically favoured during manufacture of PGEs) is a set of form the alkoxypropionic acids and these are linked at should be but lower exposures have not been shown to cause is alpha isomer. Hazard appears low, but emphasizes the lower associated with a teratogenic response in rabbits ses only 10% of the commercial material, the remaining mical. [I.C.I.] *Shin-Etsu SDS
PROPANE ACETONE & N-BUTYL ACETATE PROPANE ACETONE & N-BUTYL ACETATE	Inhalation (rat) LC50: >49942.95 mg/l/15M ^[2] 1. Value obtained from Europe ECHA Registered Substances data extracted from RTECS - Register of Toxic Effect of chemics. For acetone: The acute toxicity of acetone is low. Acetone is not a skin irritant shows acetone may cause macrocytic anaemia. Studies in human neurobehavioural deficits. The material may produce severe irritation to the eye causing pronjunctivitis. For propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl acetate (DPMA) and tripropylene glycol ethers has shown the common toxicities associated with the lower molecular weight he developing embryo and foetus, blood or thymus gland, are not sof the terminal hydroxyl group produces and alkoxyacetic acid. The ethylene series are due specifically to the formation of metho Longer chain homologues in the ethylene series are not associate formation of an alkoxyacetic acid. The predominant alpha isome secondary alcohol incapable of forming an alkoxypropionic acid. birth defects (and possibly, haemolytic effects). Animal testing shows that high concentrations (for example, 0.5° adverse effects. The beta isomer of PGMEA comprises only 10% of the commenced for care in handling this chemical. A BASF report (in ECETOC) showed that inhalation exposure that the properties of the properties of the templasizes the investment of the skin.	IRRITATION Not Available Acute toxicity 2.* Value obtained al Substances or sensitizer, but it removes fat fins have shown that exposure to a concurred inflammation. Repeate either (PnB); dipropylene glycol nat propylene glycol-based ethers implicate the employees of the ethylene series, sen with the commercial-grade price reproductive and development syacetic and ethoxyacetic acids. Ited with reproductive toxicity, but of all the PGEs (which is thermoul in contrast, beta-isomers are able to a sessociated with birth defection and the productive toxicity in the employees of t	rom the skin, and it also irritates the eye. Animal testing acetone at a level of 2375 mg/cubic metre has not caused of or prolonged exposure to irritants may produce do reprolonged exposure to irritants may produce do reprolonged exposure to irritants may produce do reprolonged exposure to irritants may produce defects on the reproductive organs, the ropylene glycol ethers. In the ethylene series, metabolist tall toxicities of the lower molecular weight homologues in can cause haemolysis in sensitive species, also throug dynamically favoured during manufacture of PGEs) is a enderon the alkoxypropionic acids and these are linked at but lower exposures have not been shown to cause is alpha isomer. Hazard appears low, but emphasizes the lower species only 10% of the commercial material, the remaining mical. [I.C.I] *Shin-Etsu SDS

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Respiratory or Skin sensitisation

Mutagenicity

X

Aspiration Hazard

Legend: X – Data either not available or does not fill the criteria for classification

Legend: X – Data either not available or does not V – Data available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Alufinish Alficolor Repair Spray	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	5-540mg/L	2
Acetone	EC50	48	Crustacea	Crustacea >100mg/L	
	EC50	96	Algae or other aquatic plants	Algae or other aquatic plants 20.565mg/L	
	NOEC	240	Crustacea	1-866mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	18mg/L	4
n butul acatata	EC50	48	Crustacea	=32mg/L	<u> </u> 1
n-butyl acetate	EC50	96	Algae or other aquatic plants	1.675mg/L	3
	EC90	72	Algae or other aquatic plants	1-540.7mg/L	2
	NOEC	504	Crustacea	23.2mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	sh 100mg/L	
propylene glycol monomethyl ether acetate, alpha-isomer	EC50	48	Crustacea	373mg/L	
other doctate, dipita toomer	EC50	72	Algae or other aquatic plants	>1-mg/L	2
	NOEC	96	Algae or other aquatic plants	>=1-mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	1-783.04mg/L	2
dimethyl ether	EC50	48	Crustacea	>4400.0mg/L	2
	EC50	96	Algae or other aquatic plants	154.917mg/L	2
	NOEC	48	Crustacea	>4000mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
butane	LC50	96	Fish	5.862mg/L	3
	EC50	96	Algae or other aquatic plants	7.71mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
propane	LC50	96	Fish	10.307mg/L	3
	EC50	96	Algae or other aquatic plants	7.71mg/L	2

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

For Petroleum Hydrocarbon Gases:

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

Atmospheric Fate: All components of these gases will evaporate to the air where interaction with hydroxyl radicals is an important fate process. Substances in refinery gases that evaporate to air may undergo indirect, gas-phase oxidation reaction with hydroxyl radicals and this is an important fate process for these substances. Half-lives for refinery gases range from 960 days, (methane), to 0.16 days, (butadiene). The constituents of the C5- C6 hydrocarbon gases have light breakdown half-lives of approximately two days. The inorganic gases are chemically stable and may be lost to the atmosphere or simply become involved in the environmental recycling of their atoms.

DO NOT discharge into sewer or waterways

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
n-butyl acetate	LOW	LOW
propylene glycol monomethyl ether acetate, alpha-isomer	LOW	LOW
dimethyl ether	LOW	LOW

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butane	LOW	LOW
propane	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
Acetone	LOW (BCF = 0.69)
n-butyl acetate	LOW (BCF = 14)
propylene glycol monomethyl ether acetate, alpha-isomer	LOW (LogKOW = 0.56)
dimethyl ether	LOW (LogKOW = 0.1)
butane	LOW (LogKOW = 2.89)
propane	LOW (LogKOW = 2.36)

Mobility in soil

Ingredient	Mobility
Acetone	HIGH (KOC = 1.981)
n-butyl acetate	LOW (KOC = 20.86)
propylene glycol monomethyl ether acetate, alpha-isomer	HIGH (KOC = 1.838)
dimethyl ether	HIGH (KOC = 1.292)
butane	LOW (KOC = 43.79)
propane	LOW (KOC = 23.74)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

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.

- 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.
 - 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.
 - ▶ Bury residues and emptied aerosol cans at an approved site.

SECTION 14 TRANSPORT INFORMATION

Labels Required



Land transport (ADG)

UN number	1950	
UN proper shipping name	AEROSOLS	
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable	
Packing group	Not Applicable	
Environmental hazard	Not Applicable	

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Special precautions for user

Special provisions 63 190 277 327 344 381

Limited quantity 1000ml

Air transport (ICAO-IATA / DGR)

UN number	1950			
UN proper shipping name	Aerosols, flammable			
	ICAO/IATA Class	2.1		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	10L		
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
	Special provisions		A145 A167 A802	
	Cargo Only Packing Instructions		203	
	Cargo Only Maximum Qty / Pack		150 kg	
Special precautions for user	Passenger and Cargo Packing Instructions		203	
	Passenger and Cargo	Maximum Qty / Pack	75 kg	
	Passenger and Cargo Limited Quantity Packing Instructions		Y203	
	Passenger and Cargo Limited Maximum Qty / Pack		30 kg G	

Sea transport (IMDG-Code / GGVSee)

UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	IMDG Class 2.1 IMDG Subrisk Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-D, S-U 63 190 277 327 344 381 959 1000ml	

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

ACETONE(67-64-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List

Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes
Australia Exposure Standards
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Inventory of Chemical Substances (AICS)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 17: Summary of minimum requirements

IMO IBC Code Chapter 18: List of products to which the Code does not apply

IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances

International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations (English)

N-BUTYL ACETATE(123-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List

Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 17: Summary of minimum requirements
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk
International Air Transport Association (IATA) Dangerous Goods Regulations
International Maritime Dangerous Goods Requirements (IMDG Code)
United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
(English)

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE, ALPHA-ISOMER(108-65-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

(English)

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Exposure Standards Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)

GESAMP/EHS Composite List - GESAMP Hazard Profiles

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

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Dangerous Goods Code (ADG Code) - Packing Instruction - Liquefied and Dissolved Gases

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix B (Part 3)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)

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

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

GESAMP/EHS Composite List - GESAMP Hazard Profiles IMO IBC Code Chapter 17: Summary of minimum requirements

IMO IBC Code Chapter 17: Summary of minimum requirements

IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk

International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code)

International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations (English)

BUTANE(106-97-8.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Dangerous Goods Code (ADG Code) - Packing Instruction - Liquefied and Dissolved Gases

Australia Exposure Standards

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

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule

International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations (English)

PROPANE(74-98-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Dangerous Goods Code (ADG Code) - Packing Instruction - Liquefied and Dissolved Gases

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

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

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

International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations (English)

National Inventory Status

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (propylene glycol monomethyl ether acetate, alpha-isomer; Acetone; n-butyl acetate; dimethyl ether; butane; propane)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	Yes
Thailand - TECI	Yes
Legend:	Yes = All declared ingredients are on the inventory No = 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

Revision Date	28/03/2019
Initial Date	04/10/2013

SDS Version Summary

Version	Issue Date	Sections Updated
5.1.1.1	05/01/2016	Acute Health (skin), Appearance, Classification, Ingredients, Name
6.1.1.1	28/03/2019	Classification, Physical Properties, Supplier Information

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Alufinish Alficolor Repair Spray

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Other information

Ingredients with multiple cas numbers

Name	CAS No
propylene glycol monomethyl ether acetate, alpha-isomer	108-65-6, 84540-57-8, 142300-82-1
dimethyl ether	115-10-6, 157621-61-9

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

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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