ICCONS Chemwatch: 5649-53 Version No: 4.1 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 4

Issue Date: 01/02/2024 Print Date: 11/02/2024 L.GHS.AUS.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	CONS Subfloor Fix			
Chemical Name	Not Applicable			
Synonyms	Available			
Proper shipping name	AEROSOLS (contains dimethyl ether, iso-butane and propane)			
Chemical formula	Not Applicable			
Other means of identification	Not Available			

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

Relevant identified uses Foam. Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	ccons			
Address	Frankston Dandenong Road Dandenong South VIC 3175 Australia			
Telephone	3 9706 4344			
Fax	Not Available			
Website	www.iccons.com.au			
Email	info@iccons.com.au			

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)	
Emergency telephone numbers	+61 1800 951 288	
Other emergency telephone numbers	+61 3 9573 3188	

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Poisons Schedule	Not Applicable		
Classification ^[1]	Aerosols Category 1, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Acute Toxicity (Inhalation) Category 4, Sensitisation (Respiratory) Category 1, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2		
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI		

Label elements

Hazard pictogram(s)

Signal word Danger

Hazard statement(s)

H222+H229	Extremely flammable aerosol. Pressurized container: may burst if heated.	
H302	mful if swallowed.	
H315	auses skin irritation.	
H317	May cause an allergic skin reaction.	

H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			
H334	y cause allergy or asthma symptoms or breathing difficulties if inhaled.			
H335	ay cause respiratory irritation.			
H351	Suspected of causing cancer.			
H361d	Suspected of damaging the unborn child.			
H373	May cause damage to organs through prolonged or repeated exposure.			

Precautionary statement(s) Prevention

Obtain special instructions before use.			
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			
o not spray on an open flame or other ignition source.			
Do not pierce or burn, even after use.			
not breathe mist/vapours/spray.			
Jse only outdoors or in a well-ventilated area.			
Wear protective gloves, protective clothing, eye protection and face protection.			
[In case of inadequate ventilation] wear respiratory protection.			
Wash all exposed external body areas thoroughly after handling.			
Do not eat, drink or smoke when using this product.			

Precautionary statement(s) Response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P308+P313	exposed or concerned: Get medical advice/ attention.			
P342+P311	experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider.			
P302+P352	F ON SKIN: Wash with plenty of water.			
P305+P351+P338	F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P362+P364	Take off contaminated clothing and wash it before reuse.			
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.			
P330	Rinse mouth.			

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

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name	
9016-87-9	30-<60	polymeric diphenylmethane diisocyanate	
1244733-77-4	10-<30	tris(2-chloroisopropyl)phosphate	
25791-96-2	10-<30	polypropylene glycol glyceryl ether	
25322-69-4	<10	polypropylene glycol	
115-10-6	<10	dimethyl ether	
75-28-5.	<10	iso-butane	
74-98-6	<10	propane	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

SECTION 4 First aid measures

Description of first aid measures

Eye Contact

If aerosols come in contact with the eyes:

ICCONS	Subfloor	Fix
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	 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	 Following uptake by inhalation, move person to an area free from risk of further exposure. Oxygen or artificial respiration should be administered as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic. A physician should be consulted. 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	Not considered a normal route of entry.

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

Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates; oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result Advice for firefighters A dert 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, splilage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed. Do NOT approach containers suspected to be hot. Cool NoT approach containers from path of fire. Equipment should be thoroughly decontaminated after use. Severe fire hazard when exposed to heat or flame. Vapour form 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. Heards may no be resistred to pressure enticals. Hagata may no be resistred to pressure enticals. Hay emit acid, poisonous or corrosive furmes. May emit acid, poisonous or corrosive fur		
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 deleviered 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. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame. 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 crocket and scatter burning materials. Hazards may not be restricted to pressure effects. May emit acid, poisonous or corrosive fumes. Combustion products include: and minor amounts of hydrogen cyanide hydrogen cyan	Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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HAZCHEM Not Applicable	HAZCHEM	Not Applicable

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

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	 Avoid contamination with water, alkalies and detergent solutions. Material reacts with water and generates gas, pressurises containers with even drum rupture resulting. DO NOT reseal container if contamination is suspected. Open all containers with care. DO NOT touch the spill material 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. Absorb or cover spill with sand, earth, inert materials or vermiculite. If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	 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 or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. DO NOT incinerate or puncture aerosol cans. DO NOT spray directly on humans, exposed food or food utensils.
Other information	 Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Contents under pressure. Store in a cool, dry, well ventilated area. Avoid storage at temperatures higher than 40 deg C. Store in an upright position. Protect containers against physical damage.

Conditions for safe storage, including any incompatibilities

Suitable container	 Aerosol dispenser. Check that containers are clearly labelled.
Storage incompatibility	 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 Avoid reaction with oxidising agents

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	polymeric diphenylmethane diisocyanate	lsocyanates, all (as-NCO)	0.02 mg/m3	0.07 mg/m3	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

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
polymeric diphenylmethane diisocyanate	0.15 mg/m3	3.6 mg/m3	22 mg/m3
polypropylene glycol	30 mg/m3	330 mg/m3	2,000 mg/m3
dimethyl ether	3,000 ppm	3800* ppm	7200* ppm
iso-butane	5500* ppm	17000** ppm	53000*** ppm
propane	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH		
polymeric diphenylmethane diisocyanate	Not Available	Not Available		
tris(2-chloroisopropyl)phosphate	Not Available	Not Available		
polypropylene glycol glyceryl ether	Not Available	Not Available		
polypropylene glycol	Not Available	Not Available		
dimethyl ether	Not Available	Not Available		
iso-butane	Not Available	Not Available		
propane	2,100 ppm Not Available			
Occupational Exposure Banding				
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
tris(2-chloroisopropyl)phosphate	E	≤ 0.1 ppm		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a			

range of exposure concentrations that are expected to protect worker health.

MATERIAL DATA

For isocyanates:

Some jurisdictions require that health surveillance be conducted on occupationally exposed workers. This should emphasise:

- demography, occupational and medical history and health advice
- completion of a standardised respiratory questionnaire
- physical examination of the respiratory system and skin
- standardised respiratory function tests such as FEV1, FVC and FEV1/FVC

Various portable or stationary instruments are available for the continuous measurement of isocyanates in the air. All of them function on the principle of colourimetric evaluation of an indicator paper strip. They are operating continuously and unattended. Paper tape systems are easy to use and do not require skilled analysts to operate them. They give rapid results and are therefore suitable for leak detection and in emergency situations. However,:

- they may read incorrect at very high or very low humidity,
- are unsuitable for aerosols
- ▶ and may not be accepted for purposes of regulatory compliance.

Air monitoring of isocyanates requires sound analytical knowledge. In order to obtain reliable results only laboratories with experience in that specific area should be engaged with such measurements

In the evaluation of the German MAK Commission the justification of the OEL for 4,4 - MDI/ pMDI is established based on the isocyanate (NCO) group which is common to the monomeric, oligomeric and the polymeric MDIs. This NCO group is highly reactive (see toxicokinetics and category justification for details). for dimethyl ether:

The no-effect-level for dimethyl ether is somewhere between 2000 ppm (rabbits) and 50,000 ppm (humans) with possible cardiac sensitisation occurring around 200,000 ppm (dogs). The AIHA has adopted a safety factor of 100 in respect to the 50,000 ppm level in its recommendation for a workplace environmental exposure level (WEEL) which is thought to protect against both narcotic and sensitising effects. This level is consistent with the TLV-TWA of 400 ppm for diethyl ether and should be easily achievable using current technologies. The use of the traditionally allowable excursion of 1.25 to the level of 6.25 ppm is felt to be more than adequate as an upper safe limit of exposure. Human data:

50,000 ppm (12 mins): Feelings of mild intoxication.

75,000 ppm (12 mins): As above plus slight lack of attenuation.

82,000 ppm (12 mins): Some incoordination, slight blurring of vision

(30 mins): As above plus analgesia of the face and rushing of blood to the face.

100,000 ppm (10-20 mins): Narcotic symptoms; (64 mins): Sickness (assumed to be nausea)

144,000 ppm (36 mins):Unconsciousness

Exposed individuals are NOT reasonably expected to be warned, by smell, that the Exposure Standard is being exceeded.

Odour Safety Factor (OSF) is determined to fall into either Class C, D or E.

The Odour Safety Factor (OSF) is defined as:

OSF= Exposure Standard (TWA) ppm/ Odour Threshold Value (OTV) ppm

Classification into classes follows:

ClassOSF Description

A 550 Over 90% of exposed individuals are aware by smell that the Exposure Standard (TLV-TWA for example) is being reached, even when distracted by working activities B 26-550As "A" for 50-90% of persons being distracted

- 1-26 As "A" for less than 50% of persons being distracted
- D 0.18-1 10-50% of persons aware of being tested perceive by smell that the Exposure Standard is being reached
- E <0.18 As "D" for less than 10% of persons aware of being tested

For butane:

Odour Threshold Value: 2591 ppm (recognition)

Butane in common with other homologues in the straight chain saturated aliphatic hydrocarbon series is not characterised by its toxicity but by its narcosis-inducing effects at high concentrations. The TLV is based on analogy with pentane by comparing their lower explosive limits in air. It is concluded that this limit will protect workers against the significant risk of drowsiness and other narcotic effects.

Odour Safety Factor(OSF) OSF=0.22 (n-BUTANE)

For propane Odour Safety Factor(OSF) OSF=0.16 (PROPANE)

Exposure controls

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

	Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategic "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. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection.	
Individual protection measures, such as personal protective equipment		
Eye and face protection	 No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE: For potentially moderate or heavy exposures: Safety glasses with side shields. NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them. 	
Skin protection	See Hand protection below	
Hands/feet protection	 NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: 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	
Other protection	 No special equipment needed when handling small quantities. OTHERWISE: Overalls. Skin cleansing cream. Eyewash unit. 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 *computer-generated* selection:

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Material	СРІ
BUTYL	A
NEOPRENE	A

* 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-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 10 x ES	AX-AUS P2	-	AX-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AX-AUS / Class 1 P2	-
up to 100 x ES	-	AX-2 P2	AX-PAPR-2 P2 ^

^ - 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)

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	Light yellow aerosol liquid.		
Physical state	Liquid	Relative density (Water = 1)	1.019
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	460
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Applicable

	Molecular weight (g/mol)	
		Not Applicable
plicable	Taste	Not Available
plicable	Explosive properties	Not Available
plicable	Oxidising properties	Not Available
ailable	Surface Tension (dyn/cm or mN/m)	Not Available
ailable	Volatile Component (%vol)	Not Available
plicable	Gas group	Not Available
plicable	pH as a solution (1%)	Not Applicable
plicable	VOC g/L	Not Available
, k	olicable olicable olicable olicable	blicable Explosive properties blicable Oxidising properties blicable Surface Tension (dyn/cm or mN/m) blicable Volatile Component (%vol) blicable Gas group blicable DH as a solution (1%)

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. Presence of elevated temperatures.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Information on toxicological ef	Tects
Inhaled	 Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo. The vapour/mist may be highly irritating to the upper respiratory tract and lungs; the response may be severe enough to produce bronchitis and pulmonary oedema. Possible neurological symptoms arising from isocyanate exposure include headache, insomnia, euphoria, ataxia, anxiety neurosis, depression and paranoia. Gastrointestinal disturbances are characterised by nausea and vomiting. Pulmonary sensitisation may produce asthmatic reactions ranging from minor breathing difficulties to severe allergic attacks; this may occur following a single acute exposure or may develop without warning for several hours after exposure. Sensitized people can react to very low doses, and should not be allowed to work in situations allowing zeposure to this material. Continued exposure of sensitised persons may lead to possible long term respiratory impairment. Inhalation hazard is increased at higher temperatures. Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxia
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Strong evidence exists that exposure to the material may produce very serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by swallowing. Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. Strong evidence exists that exposure to the material may produce very serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by skin contact. The material may accentuate any pre-existing dermatitis condition 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 Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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.

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Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by a temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur. Direct contact with the eye may not cause irritation because of the extreme volatility of the gas; however concentrated atmospheres may produce irritation after brief exposures		
Chronic	On the basis, primarily, of animal experiments, concern has been express respect of the available information, however, there presently exists inade Long-term exposure to respiratory irritants may result in disease of the ai Practical evidence shows that inhalation of the material is capable of indu greater frequency than would be expected from the response of a normal Pulmonary sensitisation, resulting in hyperactive airway dysfunction and Significant symptoms of exposure may persist for extended periods, ever nonspecific environmental stimuli such as automobile exhaust, perfumes Practical experience shows that skin contact with the material is capable individuals, and/or of producing a positive response in experimental anim Substances that can cause occupational asthma (also known as asthmag hyper-responsiveness via an immunological, irritant or other mechanism. the substance, sometimes even to tiny quantities, may cause respiratory asthma. Not all workers who are exposed to a sensitiser will become hype become hyper-responsive. Substances than can cuase occupational asthma should be distinguished with pre-existing air-way hyper-responsiveness. The latter substances an Wherever it is reasonably practicable, exposure to substances that can co possible the primary aim is to apply adequate standards of control to prev Activities giving rise to short-term peak concentrations should receive par surveillance is appropriate for all employees exposed or liable to be expo should be appropriate consultation with an occupational health profession Serious damage (clear functional disturbance or morphological change w repeated or prolonged exposure. As a rule the material produces, or cont become apparent following direct application in subchronic (90 day) toxic tests. Limited evidence suggests that repeated or long-term occupational expose biochemical systems. Isocyanate vapours/mists are irritating to the upper respiratory tract and I wheezing, gasping and severe distress, even sudden loss of consciousnes from isocyanat	equate data for making a satisfactory assessment. rways involving difficult breathing and related systemic problems. ucing a sensitisation reaction in a substantial number of individuals at a population. In after exposure ceases. Symptoms can be activated by a variety of and passive smoking. either of inducing a sensitisation reaction in a substantial number of als. gens and respiratory sensitisers) can induce a state of specific airway Once the airways have become hyper-responsive, further exposure to symptoms. These symptoms can range in severity from a runny nose to er-responsive and it is impossible to identify in advance who are likely to d from substances which may trigger the symptoms of asthma in people e not classified as asthmagens or respiratory sensitisers uase occupational asthma should be prevented. Where this is not vent workers from becoming hyper-responsive. ticular attention when risk management is being considered. Health sed to a substance which may cause occupational asthma and there hal over the degree of risk and level of surveillance. hich may have toxicological significance) is likely to be caused by ains a substance which produces severe lesions. Such damage may ity studies or following sub-acute (28 day) or chronic (two-year) toxicity sure may produce cumulative health effects involving organs or ungs; the response may be severe enough to produce bronchitis with eas, and pulmonary oedema. Possible neurological symptoms arising anxiety neurosis, depression and paranoia. Gastrointestinal itisation may produce asthmatic reactions ranging from minor breathing the exposure or may develop without warning after a period of tolerance. itisation is possible and may result in allergic dermatitis responses and nasal passages. exposure. Sensitised people can react to very low levels of airborne	
ICCONS Subfloor Fix	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Not Available	Not Available	

ICCONS Subtioor Fix	Not Available Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION
polymeric diphenylmethane	Dermal (rabbit) LD50: >9400 mg/kg ^[2]	Eye (rabbit): 100 mg - mild
diisocyanate	Inhalation(Rat) LC50: 0.49 mg/L4h ^[2]	
	Oral (Rat) LD50: 43000 mg/kg ^[2]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
tris(2-	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye (rabbit): non-irritating*
chloroisopropyl)phosphate	Inhalation(Rat) LC50: >4.6 mg/l4h ^[2]	Skin (rabbit): mild (24 h): *[Akzo Nobel]
	Oral (Rat) LD50: ~632 mg/kg ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
polypropylene glycol glyceryl ether	Inhalation(Rat) LC50: >50 mg/L4h ^[2]	Eye: non-irritant *
ound,	Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin (rabbit): 500 mg (open)-mild
		Skin: no adverse effect observed (not irritating) ^[1]
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 500 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
polypropylene glycol	Inhalation(Rat) LC50: >2.34 mg/l4h ^[1]	Skin (rabbit): 500 mg mild
	Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) $^{\left[1\right] }$
iline other dealers	ΤΟΧΙΟΙΤΥ	IRRITATION
dimethyl ether	Inhalation(Rat) LC50: >20000 ppm4h ^[1]	Not Available

ICCONS	Subfloor	Fix
1000110	GUDIIOOI	1 1 1

iso-butane	ΤΟΧΙΟΙΤΥ	IRRITATION
iso-butane	Inhalation(Rat) LC50: >13023 ppm4h ^[1]	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
propane	Inhalation(Rat) LC50: 364726.819 ppm4h ^[2]	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substances - , specified data extracted from RTECS - Register of Toxic Effect of	Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise of chemical Substances
POLYMERIC DIPHENYLMETHANE DIISOCYANATE	 contact eczema involves a cell-mediated (T lymphocytes) in urticaria, involve antibody-mediated immune reactions. The potential: the distribution of the substance and the opportun which is widely distributed can be a more important allerger contact. From a clinical point of view, substances are notew tested. Asthma-like symptoms may continue for months or even ye condition known as reactive airways dysfunction syndrome compound. Main criteria for diagnosing RADS include the at of persistent asthma-like symptoms within minutes to hours include a reversible airflow pattern on lung function tests, m and the lack of minimal lymphocytic inflammation, without e disorder with rates related to the concentration of and durat bronchitis is a disorder that occurs as a result of exposure or completely reversible after exposure cases. The disorder in Allergic reactions which develop in the respiratory passages the allergen with specific antibodies of the IgE class and be to the allergen-specific potential for causing respiratory sen determined disposition of the exposed person are likely to b in predisposing a person to allergy. They may be genetically substances. Immunologically the low molecular weight subs or proteins (haptens) or after metabolism (prohaptens). Particular attention is drawn to so-called atopic diathesis with bronchial asthma and atopic eczema (neurodermatitis) while Exogenous allergic alveolitis is induced essentially by allergi lymphocytes) may be involved. Such allergy is of the delayer isocyanate vapours/mists are irritating to the upper respirativ with wheezing, gasping and severe distress, even sudden harising from isocyanate exposure include headache, insorm disturbances are characterised by nausea and vomiting. Pu breathing difficulties to severe allergic attacks; this may occ period of tolerance. A respiratory response may occur follow dermatitis responses including rash, itching, hives and swell socyanates. Unprotected or sensitised persons shis the materia	zema, more rarely as urticaria or Quincke's oedema. The pathogenesis of mmune reaction of the delayed type. Other allergic skin reactions, e.g. contact significance of the contact allergen is not simply determined by its sensitisation ities for contact with it are equally important. A weakly sensitising substance than one with stronger sensitising potential with which few individuals come inth orthy if they produce an allergic test reaction in more than 1% of the persons ars after exposure to the material ends. This may be due to a non-allergic (RADS) which can occur after exposure to high levels of highly irritating beence of previous airways disease in a non-atopic individual, with sudden onse of a documented exposure to the irritant. Other criteria for diagnosis of RADS oderate to severe bronchial hyperreactivity on methacholine challenge testing, osinophilia. RADS (or asthma) following an irritating inhalation is an infrequent ion of exposure to the irritating substance. On the other hand, industrial the to high concentrations of irritating substance (often particles) and is s characterized by difficulty breathing, cough and mucus production. s as bronchial asthma or rhinoconjunctivitis, are mostly the result of reactions of long in their reaction rates to the manifestation of the immediate type. In addition sitisation, the amount of the allergen, the exposure period and the genetically the decisive. Factors which increase the sensitivity of the mucosa may play a role of determined or acquired, for example, during infections or exposure to irritant stances become complete allergens in the organism either by binding to peptides this associated with increased lgE synthesis. Jen specific immune-complexes of the IgG type; cell-mediated reactions (T ed type with onset up to four hours following exposure. ory tract and lungs; the response may be severe enough to produce bronchitis oss of consciousness, and pulmonary oedema. Possible neurological symptoms nia, euphoria, ataxia, anxiety ne
TRIS(2- CHLOROISOPROPYL)PHOSPHATE	Blooming has been identified as a source of potential exposes Blooming is defined as the migration (or more appropriately Thus is generally a slow process. Increased temperature m bloom from car interior plastics, TVs and computer VDUs Acute toxicity:	chemical, physical, toxicological or environmental properties. sure (human and environmental) to trisphosphate plasticers/ flame retardants. ; diffusion) of an ingredient in rubber or plastic to the outer surface after curing. ay accelerate the rate of migration. For example trisphosphates are know to ound the body to various organs, particularly the liver and kidney, but also the
	brain. Metabolites in rats and mice include bis(2-chloroethyl chloroethyl)-2-hydroxyethyl phosphate glucuronide. Excretiv acute oral toxicity (oral LD50 in the rat = 1150 mg/kg body w (hippocampal lesions in rats), liver and kidneys. The NOEL for increased weights of liver and kidneys in rats	ound the body to various organs, particularly the liver and kidney, but also the l) carboxymethyl phosphate; bis(2-chloroethyl) hydrogen phosphate; and bis(2- on is rapid, nearly complete and mainly via the urine. TCEP is of low to moderative veight). In repeat dose studies, TCEP caused adverse effects on the brain was 22 mg/kg body weight per day and the LOEL 44 mg/kg body weight per day in rats = 1017-4200 mg/kg body weight), dermal (LD50 in rats and rabbits is >

TCPP is of low to moderate acute toxicity by the oral (LD50 in rats = 1017-4200 mg/kg body weight), dermal (LD50 in rats and rabbits is >

	5000 mg/kg body weight) and inhalation routes (I	l C50 in rats is > 4.6 ma/litre)		
	For tris(2-chloro-1-methylethyl)phosphate (TCPP The flame retardant product supplied in the EU, r isomers in this reaction mixture are not separated for TCPP produced by all EU manufacturers. The 76025-08-6); bis(2-chloropropyl)-1-chloro-2-propy assumption is made that all isomers have identic that they exhibit very similar chromatographic pro properties differ to only a small extent. Chlorinated alkyl phosphate esters (particularly T They appear to be relatively persistent substance characterised to a degree and serve as a read ac tris[2-(chloro-1-chloromethyl)ethyl]phosphate (TD chloroethyl)phosphate] (V6, CAS 38051-10-4). for alkyl esters of phosphoric acid: The chemicals in this category exhibit a low to m 2-ethylhexyl phosphate to >36,800 mg/kg for tris(with bis(2-ethylhexyl) hydrogen phosphate to > 2 from > 0.447 mg/l (4 hr. rat) with tris(2-ethylhexyl Metabolism: Phosphoric acid esters are metabo dealkylation to form the alkyl alcohol is the prima	marketed as TCPP, is actually a reacti d or marketed. The individual compon e other isomers in the mixture include yl phosphate (CAS 76649-15-5) and t al properties in respect of risk assessi- operties, even under conditions optimi TCPP) were identified as possible sub- es, and there is some human health or cross reference for TCPP. They includ DCP, CAS 13674-87-8) and 2,2-bis(ch oderate order of acute toxicity. The rai (2-ethylhexyl) phosphate. The dermal 0,000 mg/kg (rabbit) with tris(2- ethylf) phosphate to > 5.14 mg/l (4 hr. rat) v lized via dealkylation. Metabolism stu- ry route of metabolism Phosphoric ac	t oral LD50 values ranged from 500-1000 mg/kg with LD50 values ranged from 1200 to > 2000 mg/kg (rat) nexyl) phosphate. The inhalation LC50 values ranged with triisobutyl phosphate. dies conducted on the tributyl phosphate indicate that id tri-esters are rapidly metabolised to di-esters with	
	metabolised to bis(2-ethylhexyl) phosphate (CAS evidence for dealkylation as the primary metaboli RN: 78-42-2) and 2-ethylhexyl phosphate (CAS F phosphate, with methoxypropanol as the alcohol Oral repeat dose NOAEL's in rats for dibutyl hydr hydrogen phosphate, tris(2-ethylhexyl) phosphate	mono-diesters also being produced. Studies of tributyl phosphate show that 40-64% of the parent compound is metabolised to dibutyl dihydrogen phosphate and that 1.1-2.1 % is metabolised to the monobutyl species. Therefore, tris(2-ethylhexyl) phosphate is expected metabolised to bis(2-ethylhexyl) phosphate (CAS RN: 298-07-7) and mono(2-ethylhexyl) phosphate (CAS RN 1070-03-7). Based on the evidence for dealkylation as the primary metabolic pathway, 2-ethylhexanol is the expected metabolite of tris(2-ethylhexyl) phosphate (CAS RN: 12645-31-7). Triisobutyl phosphate is expected to be metabolised similarly as tribu phosphate, with methoxypropanol as the alcohol metabolite Oral repeat dose NOAEL's in rats for dibutyl hydrogen phosphate, tributyl phosphate, tris(2-ethylhexyl) phosphate, and triisobutyl phosphate were 30 mg/kg/day (44 days), 75 mg/kg/day (90 days), 129 mg/kg/day (90 days), 100 mg/kg/day (90 days), 250 mg/kg/day (5 days), and 1000 mg/kg/day (90 days), and 68.4-84.3 mg/kg (90 days)		
POLYPROPYLENE GLYCO GLYCERYL ETHE	Data for Niax Polyol L-56 Data for Niax Polyol LG-168 * BASF Multranol 9175 SDS The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.			
	will stabilize intermediary radicals involved. Inves ethoxylate, showed that polyethers form complex Sensitization studies in guinea pigs revealed that oxidation products are sensitizers. Two hydroper pentaoxaheptacosan-1-ol) was stable enough to	stigations of a chemically well-defined c mixtures of oxidation products when t the pure nonoxidized surfactant itself oxides were identified in the oxidation o be isolated. It was found to be a stro	usceptible towards air oxidation as the ether oxygens alcohol (pentaethylene glycol mono-n-dodecyl ether) exposed to air. is nonsensitizing but that many of the investigated mixture, but only one (16-hydroperoxy-3,6,9,12,15- ng sensitizer in LLNA (local lymph node assay for ed by the detection of their corresponding aldehydes	
	On the basis of the lower irritancy, nonionic surfactants are often preferred to ionic surfactants in topical products. However, their susceptibility towards autoxidation also increases the irritation. Because of their irritating effect, it is difficult to diagnose ACD to these compounds by patch testing. Allergic Contact Dermatitis—Formation, Structural Requirements, and Reactivity of Skin Sensitizers.			
POLYPROPYLENE GLYCC	Ann-Therese Karlberg et al; Chem. Res. Toxicol.2008,21,53-69 Polyethylene glycols (PEGs) have a wide variety of PEG-derived mixtures due to their readily linkable terminal primary hydroxyl groups in combination with many possible compounds and complexes such as ethers, fatty acids, castor oils, amines, propylene glycols, among other derivatives. PEGs and their derivatives are broadly utilized in cosmetic products as surfactants, emulsifiers, cleansing agents, humectants, and prime and prime prime and prime prime and prime and prime pr			
and skin conditioners. PEGs and PEG derivatives were generally regulated as safe for use in cosmetics, with the conditions that impurities and by-product as ethylene oxides and 1,4-dioxane, which are known carcinogenic materials, should be removed before they are mixed in cosmetic formulations. Most PEGs are commonly available commercially as mixtures of different oligomer sizes in broadly- or narrowly-defined molecular w (MW) ranges. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants produce conjunctivitis.		e removed before they are mixed in cosmetic es in broadly- or narrowly-defined molecular weight Repeated or prolonged exposure to irritants may		
	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.			
PROPAN	E No significant acute toxicological data identified in	n literature search.		
		Carcinogenicity	✓	
Acute Toxicity	V			
Acute Toxicity Skin Irritation/Corrosion	¥	Reproductivity	×	
Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation				
Acute Toxicity Skin Irritation/Corrosion	¥	Reproductivity	×	

SECTION 12 Ecological information

Toxicity					
	Endpoint	Test Duration (hr)	Species	Value	Source
ICCONS Subfloor Fix	Not Available	Not Available	Not Available	Not Available	Not Available

notimoria dinhanulmathana	Endpoint	Test Duration (hr)	Species	Value	Source
polymeric diphenylmethane diisocyanate	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	96h	Algae or other aquatic plants	4mg/l	1
	BCF	1008h	Fish	0.8-2.8	7
	ErC50	72h	Algae or other aquatic plants	4mg/l	1
tris(2-	EC50	48h	Crustacea	65335mg/l	1
chloroisopropyl)phosphate	EC50	72h	Algae or other aquatic plants	82mg/l	Not Availabl
	EC50(ECx)	96h	Algae or other aquatic plants	4mg/l	1
	LC50	96h	Fish	56.2mg/l	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	BCF	1008h	Fish	0.2-2.2	7
olypropylene glycol glyceryl	EC50	48h	Crustacea	>100mg/l	2
ether	EC50	72h	Algae or other aquatic plants	>100mg/l	2
	LC50	96h	Fish	>1000mg/l	2
	NOEC(ECx)	504h	Crustacea	>=10mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	48h	Crustacea	>100mg/l	2
	EC50	96h	Algae or other aquatic plants	3000-4000mg/l	2
polypropylene glycol	EC50	72h	Algae or other aquatic plants	>100mg/l	2
	LC50	96h	Fish	>100mg/l	2
	NOEC(ECx)	504h	Crustacea	>=10mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	96h	Algae or other aquatic plants	154.917mg/l	2
dimethyl ether	EC50	48h	Crustacea	>4400mg/L	2
-	NOEC(ECx)	48h	Crustacea	>4000mg/l	1
	LC50	96h	Fish	1783.04mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	96h	Algae or other aquatic plants	7.71mg/l	2
iso-butane	EC50(ECx)	96h	Algae or other aquatic plants	7.71mg/l	2
	LC50	96h	Fish	24.11mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
propane	Not	Not Available	Not Available	Not	Not

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
tris(2-chloroisopropyl)phosphate	HIGH	HIGH
polypropylene glycol	LOW	LOW
dimethyl ether	LOW	LOW
iso-butane	HIGH	HIGH
propane	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
tris(2-chloroisopropyl)phosphate	LOW (BCF = 4.6)
polypropylene glycol glyceryl ether	LOW (BCF = 7)
polypropylene glycol	LOW (LogKOW = 1.6984)

Ingredient	Bioaccumulation
dimethyl ether	LOW (LogKOW = 0.1)
iso-butane	LOW (BCF = 1.97)
propane	LOW (LogKOW = 2.36)
Mobility in soil	
Ingredient	Mobility

ingrouient	mounty
tris(2-chloroisopropyl)phosphate	LOW (KOC = 1278)
polypropylene glycol	LOW (KOC = 15.66)
dimethyl ether	HIGH (KOC = 1.292)
iso-butane	LOW (KOC = 35.04)
propane	LOW (KOC = 23.74)

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. 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 Marine Pollutant NO HAZCHEM Not Applicable

Land transport (ADG)

14.1. UN number or ID number	1950	950	
14.2. UN proper shipping name	AEROSOLS (contains	dimethyl ether, iso-butane and propane)	
14.3. Transport hazard class(es)	Class Subsidiary Hazard	2.1 Not Applicable	
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions Limited quantity	63 190 277 327 344 381 1000ml	

Air transport (ICAO-IATA / DGR)

14.2. UN proper shipping		1950		
name	Aerosols, flammable (contains dime	thyl ether, iso-butane and	propane)	
	ICAO/IATA Class	2.1		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
01035(03)	ERG Code	10L		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		A145 A167 A802	
14.6. Special precautions for	Cargo Only Packing Instructions		203	
user	Cargo Only Maximum Qty / Pack		150 kg	

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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)

14.1. UN number	1950	1950	
14.2. UN proper shipping name	AEROSOLS (contains d	limethyl ether, iso-butane and propane)	
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Haza	2.1 ard Not Applicable	
14.4. Packing group	Not Applicable		
14.5 Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions	F-D , S-U 63 190 277 327 344 381 959 1000 ml	

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
polymeric diphenylmethane diisocyanate	Not Available
tris(2-chloroisopropyl)phosphate	Not Available
polypropylene glycol glyceryl ether	Not Available
polypropylene glycol	Not Available
dimethyl ether	Not Available
iso-butane	Not Available
propane	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
polymeric diphenylmethane diisocyanate	Not Available
tris(2-chloroisopropyl)phosphate	Not Available
polypropylene glycol glyceryl ether	Not Available
polypropylene glycol	Not Available
dimethyl ether	Not Available
iso-butane	Not Available
propane	Not Available

SECTION 15 Regulatory information

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

polymeric diphenylmethane diisocyanate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

- Australia Model Work Health and Safety Regulations Hazardous chemicals (other than lead) requiring health monitoring
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

tris(2-chloroisopropyl)phosphate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

polypropylene glycol glyceryl ether is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

polypropylene glycol is found on the following regulator	y lists
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Australian Inventory of Industrial Chemicals (AIIC)

dimethyl ether is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australian Inventory of Industrial Chemicals (AIIC)

iso-butane is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC) Chemical Footprint Project - Chemicals of High Concern List

propane is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (polymeric diphenylmethane diisocyanate; tris(2-chloroisopropyl)phosphate; polypropylene glycol glyceryl ether; polypropylene glycol; dimethyl ether; iso-butane; propane)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (polymeric diphenylmethane diisocyanate)
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (polypropylene glycol glyceryl ether)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	01/02/2024
Initial Date	12/12/2023

SDS Version Summary

Version	Date of Update	Sections Updated
3.1	24/01/2024	Toxicological information - Acute Health (inhaled), First Aid measures - Advice to Doctor, Toxicological information - Chronic Health, Hazards identification - Classification, Firefighting measures - Fire Fighter (extinguishing media), Firefighting measures - Fire Fighter (fire/explosion hazard), Firefighting measures - Fire Fighter (fire fighting), Exposure controls / personal protection - Personal Protection (Respirator), Exposure controls / personal protection - Personal Protection (eye), Accidental release measures - Spills (major), Toxicological information - Toxicity and Irritation (Other)
4.1	01/02/2024	Hazards identification - Classification

Other information

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

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

Definitions and abbreviations

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit.
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- 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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- ۶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances ۲
- ۶
- ۲
- NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals ۶
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- PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act ٠
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- ۲ TCSI: Taiwan Chemical Substance Inventory
- ۲ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory ۲
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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