

# Tensorgrip X41 Acoustic Panel 500ml Aerosol Spray Adhesive QUIN GLOBAL ASIA PACIFIC

Version No: 4.5

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 4 Issue Date: 05/02/2024 Print Date: 05/02/2024 L.GHS.AUS.EN

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

## Product Identifier

Product name	Tensorgrip X41 Acoustic Panel 500ml Aerosol Spray Adhesive	
Synonyms		
Proper shipping name	AEROSOLS (contains acetone)	
Other means of identification	Not Available	

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

Relevant identified uses	Adhesive

#### Details of the manufacturer or supplier of the safety data sheet

Registered company name	QUIN GLOBAL ASIA PACIFIC			
Address	3 Hincksman Street Queanbeyan, NSW 2620 Australia			
Telephone	1 2 6175 0574			
Fax	ot Available			
Website	www.quinglobal.com			
Email	sales@quinglobal.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

May be fatal if swallowed and enters airways.

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

H304

Poisons Schedule	Not Applicable		
Classification <sup>[1]</sup>	Aerosols Category 1, Aspiration Hazard Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Hazardous to the Aquatic Environment Long-Term Hazard Category 2		
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	
Hazard statement(s)		
H222+H229	Extremely flammable aerosol. Pressurized container: may burst if heated.	

H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H411	Toxic to aquatic life with long lasting effects.	
AUH044	Risk of explosion if heated under confinement.	

# Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing gas.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

# Precautionary statement(s) Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.		
Do NOT induce vomiting.		
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.		
If eye irritation persists: Get medical advice/attention.		
Collect spillage.		
IF ON SKIN: Wash with plenty of water and soap.		
IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
If skin irritation occurs: Get medical advice/attention.		
Take off contaminated clothing and wash it before reuse.		

# Precautionary statement(s) Storage

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

# Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised 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
67-64-1	<10	acetone
79-20-9	<2	methyl acetate
64742-49-0.	20-30	naphtha petroleum, light, hydrotreated
115-10-6	40-50	dimethyl ether
Not Available	10-20	Non-hazardous ingredients
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:
	<ul> <li>Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.</li> <li>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.</li> <li>Transport to hospital or doctor without delay.</li> </ul>
	<ul> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
	If solids or aerosol mists are deposited upon the skin:
Skin Contact	<ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Remove any adhering solids with industrial skin cleansing cream.</li> </ul>
	DO NOT use solvents.

	Seek medical attention in the event of irritation.
Inhalation	<ul> <li>If aerosols, fumes or combustion products are inhaled:</li> <li>Remove to fresh air.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>

# **SECTION 5 Firefighting measures**

#### Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.
- SMALL FIRE:
- Water spray, dry chemical or CO2 LARGE FIRE:
- Water spray or fog.

# Special hazards arising from the substrate or mixture

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

# Advice for firefighters

Fire Fighting	
Fire/Explosion Hazard	carbon dioxide (CO2) other pyrolysis products typical of burning organic material. <b>Contains low boiling substance:</b> Closed containers may rupture due to pressure buildup under fire conditions. BEWARE: Empty solvent, paint, lacquer and flammable liquid drums present a severe explosion hazard if cut by flame torch or welded. Even when thoroughly cleaned or reconditioned the drum seams may retain sufficient solvent to generate an explosive atmosphere in the drum. <b>WARNING:</b> Aerosol containers may present pressure related hazards.
HAZCHEM	Not Applicable

# **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> <li>Wipe up.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse / absorb vapour.</li> <li>Absorb or cover spill with sand, earth, inert materials or vermiculite.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> <li>Collect residues and seal in labelled drums for disposal.</li> </ul>

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

# **SECTION 7 Handling and storage**

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure.</li> <li>For materials with a viscosity of at least 2680 cSt. (23 deg. C)</li> <li>For manufactured product having a viscosity of at least 250 cSt. (23 deg. C)</li> <li>Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used.</li> <li>Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages</li> <li>In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.</li> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>
Storage incompatibility	Dimethyl ether: <ul> <li>is a peroxidisable gas</li> <li>may be heat and shock sensitive</li> <li>is a peroxidisable gas.</li> <li>may be heat and shock sensitive</li> <li>is aberoxidisable gas.</li> <li>may be heat and shock sensitive</li> <li>is a compatible with strong acids, metal salts</li> </ul> Low molecular weight alkanes: <ul> <li>May react violently with strong oxidisers, chlorine, chlorine dioxide, dioxygen/l tetrafluoroborate.</li> <li>May react violently with strong oxidisers, chlorine, chlorine dioxide, dioxygen/l tetrafluoroborate.</li> <li>Are incompatible with nitronium tetrafluoroborate(1-), halogens and interhalogens</li> <li>may generate electrostatic charges, due to low conductivity, on flow or agitation.</li> <li>Avoid flame and ignition sources</li> </ul> Redox reactions of alkanes, in particular with oxygen and the halogens, are possible as the carbon atoms are in a strongly reduced condition. Reaction with oxygen (If present in sufficient quantity to satisfy the reaction stoichiometry) leads to combustion without any smoke, producing carbon dioxide and water. Free radical halogenation reactions tocur with halogens, leading to the production of haloalkanes. In addition, alkanes have been shown to interact with, and bind to, certain transition metal complexes. Interaction between chlorine and ethane over activated carbon at 350 deg C has caused explosions, but added carbon dioxide reduces the risk. The violent interaction of liquid chlorine injected into ethane at 80 deg C/10 bar becomes very violent if ethylene is also present A mixture prepared at -196 deg C with ether methane or ethane exploded when the terms was raised to -78 deg C. Addition with esters that is sufficiently exothermic to ignite the reaction products. <ul> <li>Esters react with acids to liberate heat along with alcohols and acids.</li> <li>Strong xuldising acids may cause a vigorous reaction with esters that is sufficiently exothermic to ignite the reaction products.</li> <li>Heam sale hydrogen is</li></ul>

# SECTION 8 Exposure controls / personal protection

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Occupational Exposure Limits	(OEL)							
INGREDIENT DATA								
Source	Ingredient	Material name	т١	WA	STEL		Peak	Notes
Australia Exposure Standards	acetone	Acetone	50	00 ppm / 1185 mg/m3	2375 mg/m3 / 1000	) ppm	Not Available	Not Available
Australia Exposure Standards	methyl acetate	Methyl acetate	20	00 ppm / 606 mg/m3	757 mg/m3 / 250 p	757 mg/m3 / 250 ppm Not Available N		Not Available
Australia Exposure Standards	dimethyl ether	Dimethyl ether	40	00 ppm / 760 mg/m3	950 mg/m3 / 500 p	950 mg/m3 / 500 ppm Not Available Not		Not Available
Emergency Limits								
Ingredient	TEEL-1			TEEL-2		TEEL	-3	
acetone	Not Available			Not Available		Not A	vailable	
methyl acetate	250 ppm	250 ppm 1,700 ppm			10000* ppm			
naphtha petroleum, light, hydrotreated	1,000 mg/m3	1,000 mg/m3 11,000 mg/m3		66,000 mg/m3				
dimethyl ether	3,000 ppm	3,000 ppm 3800* ppm		7200* ppm				
Ingredient	Original IDLH				Revised IDLH			
acetone	2,500 ppm	2,500 ppm			Not Available			
methyl acetate	3,100 ppm	3,100 ppm			Not Available	Not Available		
naphtha petroleum, light, hydrotreated	Not Available	Not Available			Not Available			
dimethyl ether	Not Available	Not Available			Not Available			
Non-hazardous ingredients	Not Available	Not Available		Not Available				
Occupational Exposure Bandin	ıg							
Ingredient	Occupational Ex	Occupational Exposure Band Rating		Occupational Exposure Band Limit				
naphtha petroleum, light, hydrotreated	E	E			≤ 0.1 ppm	≤ 0.1 ppm		

Occupational exposure banding is a process of assigning c	hemicals into specific categories or bands based on a chemical's potency and the
adverse health outcomes associated with exposure. The out	tput of this process is an occupational exposure band (OEB), which corresponds to a
range of exposure concentrations that are expected to prote	ect worker health.

# Exposure controls

Notes:

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. 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. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.				
	Type of Contaminant:	Speed:			
Appropriate engineering	aerosols, (released at low velocity into zone of active gen	0.5-1 m/s			
controls	direct spray, spray painting in shallow booths, gas dischar	1-2.5 m/s (200-500 f/min.)			
	Within each range the appropriate value depends on:	Upper end of the range			
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity			
	3: Intermittent, low production.	3: High production, heavy use			
	4: Large hood or large air mass in motion	4: Small hood-local control only			
	Simple theory shows that air velocity falls rapidly with dista with the square of distance from the extraction point (in sir accordingly, after reference to distance from the contamina 1-2 m/s (200-400 f/min.) for extraction of solvents generate considerations, producing performance deficits within the e factors of 10 or more when extraction systems are installed	ple cases). Therefore the air speed at ting source. The air velocity at the extr d in a tank 2 meters distant from the ex xtraction apparatus, make it essential t	the extraction action fan, for xtraction poin	n point should be adjusted, r example, should be a minimur t. Other mechanical	

Individual protection measures, such as personal protective equipment



Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.[AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. 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. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>For esters:</li> <li>Do NOT use natural rubber, butyl rubber, EPDM or polystyrene-containing materials.</li> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE:</li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Skin cleansing cream. • Eyewash unit. • Do not spray on hot surfaces.

#### 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:

Tensorgrip X41 Acoustic Panel 500ml Aerosol Spray Adhesive

Material	CPI
BUTYL	A
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON/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**	-

#### \* - Continuous-flow; \*\* - Continuous-flow or positive pressure demand ^ - Full-face

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

- 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
- Generally not applicable.

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.

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	AX-AUS / Class 1	-
up to 50	1000	-	AX-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	AX-2
up to 100	10000	-	AX-3
100+		-	Airline**

\*\* - Continuous-flow or positive pressure demand.

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#### **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance	Not Available							
Physical state	Liquified Gas	0.709						
Odour	Not Available	Not Available						
Odour threshold	Not Available	Auto-ignition temperature (°C)	350					
pH (as supplied)	Not Available	Not Applicable						
Melting point / freezing point (°C)	-141.5	Viscosity (cSt)	Not Available					
Initial boiling point and boiling range (°C)	-24.8	Molecular weight (g/mol)	Not Available					
Flash point (°C)	-41.1	Not Available						
Evaporation rate	Not Available	Explosive properties	Not Available					
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available					
Upper Explosive Limit (%)	18.2	Surface Tension (dyn/cm or mN/m)	Not Available					
Lower Explosive Limit (%)	3.4	Volatile Component (%vol)	Not Available					
Vapour pressure (kPa)	63	Gas group	Not Available					
Solubility in water	Immiscible	pH as a solution (1%)	Not Available					
Vapour density (Air = 1)	1.6	VOC g/L	Not Available					

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

### **SECTION 11 Toxicological information**

#### Information on toxicological effects The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. 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 main effects of simple aliphatic esters are narcosis and irritation and anaesthesia at higher concentrations. These effects become greater as the molecular weights and boiling points increase. Central nervous system depression , headache, drowsiness, dizziness, coma and Inhaled neurobehavioral changes may also be symptomatic of overexposure. Respiratory tract involvement may produce mucous membrane irritation, dyspnea, and tachypnea, pharyngitis, bronchitis, pneumonitis and, in massive exposures, pulmonary oedema (which may be delayed). Gastrointestinal effects include nausea, vomiting, diarrhoea and abdominal cramps. Liver and kidney damage may result from massive exposures. Central nervous system (CNS) depression may include nonspecific 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.

	Ethers produce narcosis following inhalation. Inhalation of lower alkyl ethers may result in central nervous system depression or stimulation, intoxication, headache, dizziness, weakness, blurred vision, seizures and possible coma. Cardiovascular involvement may produce hypotension, bradycardia and cardiovascular collapse, whilst respiratory symptoms might include irritation of nose and throat, cough, laryngeal spasm, pharyngitis, irregular respiration, depression, pulmonary oedema and respiratory arrest. Nausea, vomiting and salivation might also indicate overexposure. Convulsions, respiratory distress or paralysis, asphyxia, pneumonitis, and unconsciousness are all serious manifestations of poisoning. Fatalities have been reported. Kidney and liver damage with interstitial cystitis may result from massive exposures. Some aliphatic hydrocarbons produce axonal neuropathies. Isoparaffinic hydrocarbons produce injury to the kidneys of male rats. When albino rats were exposed to isoparaffins at 21.4 mg/l for 4 hours. Symptoms disappeared after 24 hours. Several studies have evaluated sensory irritation in laboratory animals or odor or sensory response in humans. When evaluated by a standard procedure to assess upper airway irritation, isoparaffins did not produce sensory irritation in mice exposed to up to 400 ppm isoparaffin in air. Human volunteers were exposed for six hours to 100 ppm isoparaffin. The subjects were given a self-administered questionnaire to evaluate symptoms, which included dryness of the muccous membranes, loss of appetite, nausea, vomiting, diarrhea, fatigue, headache, dizziness, feeling of inebriation, visual disturbances, tremor, muscular weakness, impairment of coordination or paresthesia. No symptoms associated with solvent exposure were observed. With a human expert panel, odour from liquid imaging copier emissions became weakly discernible at approximately 50 ppm. Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing, with nausea; ce
Ingestion	Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result. Signs and symptoms of chemical (aspiration) pneumonitis may include coughing, gasping, choking, burning of the mouth, difficult breathing, and bluish coloured skin (cyanosis). Accidental ingestion of the material may be damaging to the health of the individual. Ingestion of alkyl ethers may produce symptoms similar to those produced following inhalation. Ingestion of petroleum hydrocarbons may produce irritation of the pharynx, oesophagus, stomach and small intestine with oedema and mucosal ulceration resulting; symptoms include a burning sensation in the mouth and throat. Large amounts may produce narcosis with nausea and vomiting, weakness or dizziness, slow and shallow respiration, swelling of the abdomen, unconsciousness and convulsions. Myocardial injury may produce arrhythmias, ventricular fibrillation and electrocardiographic changes. Central nervous system depression may also occur. Light aromatic hydrocarbons produce a warm, sharp, tingling sensation on contact with taste buds and may anaesthetise the tongue. Aspiration into the lungs may produce coughing, gagging and a chemical pneumonitis with pulmonary oedema and haemorrhage. 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. 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 Alkyl ethers may defat and dehydrate the skin producing dermatoses. Absorption may produce headache, dizziness, and central nervous system depression. 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.
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 temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur. Instillation of isoparaffins into rabbit eyes produces only slight irritation. Eye contact with alkyl ethers (vapours or liquid) may produce irritation, redness and lachrymation. Petroleum hydrocarbons may produce pain after direct contact with the eyes. Slight, but transient disturbances of the corneal epithelium may also result. The aromatic fraction may produce irritation and lachrymation.
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Exposure to the material may cause concerns for human fertility, generally on the basis that results in animal studies provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other toxic effects. Repeated or prolonged exposure to mixed hydrocarbons may produce narcosis with dizziness, weakness, irritability, concentration and/ormemory loss, tremor in the fingers and tongue, vertigo, olfactory disorders, constriction of visual field, paraesthesias of the extremities, weight loss and anaemia and degenerative changes in the liver and kidney. Chronic exposure by petroleum workers, to the lighter hydrocarbons, has been associated with visual disturbances, damage to the central nervous system, peripheral neuropathies (including numbness and paraesthesias), psychological and neurophysiological deficits, bone marrow toxicities (including hypoplasia possibly due to benzene) and hepatic and renal involvement. Chronic dermal exposure to petroleum hydrocarbons may result in defatting which produces localised dermatoses. Surface cracking and erosion may also increase susceptibility to infection by microorganisms. Despite the compositional complexity, most hydrocarbon solvent constituents have similar toxicological properties, and the overall toxicological hazards can be characterized in generic terms. Hydrocarbon solvent respiratory irritation at exposure levels exceeding occupational recommendations. Otherwise, there are few toxicologically important effects. The exceptions, n-hexane and naphthalene, have unique toxicological properties.
	No dealins or treatment related signs or toxicity were observed in rais exposed to light anytate naphtina (paraminic rightocarbons) at

concentrations of 668, 2220 and 6646 ppm for 6 hrs/day, 5 days/wk for 13 weeks. Increased liver weights and kidney toxicity (male rats) was observed in high dose animals. Exposure to pregnant rats at concentrations of 137, 3425 and 6850 ppm did not adversely affect reproduction or cause maternal or foetal toxicity. Lifetime skin painting studies in mice with similar naphthas have shown weak or no carcinogenic activity following prolonged and repeated exposure. Similar naphthas/distillates, when tested at nonirritating dose levels, did not show any significant carcinogenic activity indicating that this tumorigenic response is likely related to chronic irritation and not to dose. The mutagenic potential of naphthas has been reported to be largely negative in a variety of mutagenicity tests. The exact relationship between these results and human health is not known. Some components of this product have been shown to produce a species specific, sex hormonal dependent kidney lesion in male rats from repeated oral or inhalation exposure. Subsequent research has shown that the kidney damage develops via the formation of a alpha-2u-globulin, a mechanism unique to the male rat. Humans do not form alpha-2u-globulin, therefore, the kidney effects resulting from this mechanism are not relevant in human. Chronic effects of exposure to methyl acetate may be similar to those from methanol exposure because methyl acetate can be hydrolysed to yield methanol and acetic acid. Optic nerve damage is the predominant hazard. Chronic exposure to alkyl ethers may result in loss of appetite, excessive thirst, fatigue, and weight loss
Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]
Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

Tensorgrip X41 Acoustic	ΤΟΧΙCΙΤΥ		IRRITATION		
Panel 500ml Aerosol Spray Adhesive	Not Available	Not Available			
	ΤΟΧΙΟΙΤΥ	TOXICITY IRRITA			
acetone	Dermal (rabbit) LD50: 20000 mg/kg <sup>[2]</sup>	numan): 500 ppm - irritant			
	Inhalation(Mouse) LC50; 44 mg/L4h <sup>[2]</sup>	abbit): 20mg/24hr -moderate			
	Oral (Rat) LD50: 5800 mg/kg <sup>[2]</sup>	Eye (ra	abbit): 3.95 mg - SEVERE		
		Eye: adverse effect observed (irritating) <sup>[1]</sup>			
		Skin (r	rabbit): 500 mg/24hr - mild		
		Skin (r	rabbit):395mg (open) - mild		
		Skin: r	no adverse effect observed (not	irritating) <sup>[1]</sup>	
	ΤΟΧΙΟΙΤΥ		IRRITATION		
methyl acetate	dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup>		Eye (rabbit):100 mg/24h-moderate		
inethyl doctate	Oral (Rabbit) LD50; 3700 mg/kg <sup>[2]</sup>	Skin (rabbit): 20 mg/24h - mild	1		
		ld			
	TOXICITY	ATION			
naphtha petroleum, light, hydrotreated	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	no adverse effect observed (not			
nydrotreated	Inhalation(Rat) LC50: >4.42 mg/L4h <sup>[1]</sup>	Skin: a	adverse effect observed (irritatin	g) <sup>[1]</sup>	
	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>				
	ΤΟΧΙCΙΤΥ			IRRITATION	
dimethyl ether	Inhalation(Rat) LC50: >20000 ppm4h <sup>[1]</sup>			Not Available	
	тохісіту				
			IRRITATION		
Non-hazardous ingredients	Not Available		Not Available		

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

<ul> <li>spongy layer (spongiosis) and intracellular oedema of the epidermis.</li> <li>For acetone:</li> <li>The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitiser but is a defatting agent to the skin. Acetone is an eye irritant. The subchronic toxicity of acetone has been examined in mice and rats that were administered acetone in the drinking water and again in rats treated by oral gavage. Acetone-induced increases in relative kidney weight changes were observed in male and female rats used in the oral 13-week study. Acetone treatment caused increases in the relative liver weight in male and female rats that were not associated with histopathologic effects and the effects may have been associated with microsomal enzyme induction. Haematologic effects consistent with macrocytic anaemaia were also noted in male rats along with hyperpigmentation in the spleen. The most notable findings in the mice were increased liver and decreased spleen weights. Overall, the no-observed-effect-levels in the drinking water study were 1% for male rats [900 mg/kg/d] and male mice (2258 mg/kg/d), 2% for female mice (5945 mg/kg/d), and 5% for female rats (3100 mg/kg/d). For developmental effects, a statistically significant reduction in foetal weight, and a slight, but statistically significant increase in the percent incidence of later resorptions were seen in mice at 15,665 mg/m3 and in rats at 26,100 mg/m3. The no-observable-effect level for developmental toxicity was determined to be 5220 mg/m3 for both rats and mice.</li> <li>Teratogenic effects were not observed in rats and mice tested at 26,110 and 15,665 mg/m3, respectively. Lifetime dermal carcinogenicity studies in mice treated with up to 0.2 mL of acetone. Effect levels ranging from abut 600 to greater than 2375 mg/m3 were not associated with any dose-related changes in response time, vigilance, or digit span scores. Clinical case studies, controlled human volunteer studies, animal</li> </ul>
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	research, and occupational field evaluations all indicate that the NOAEL for this effect is 2375 mg/m3 or greater.
METHYL ACETATE	In methy acetate is a water soluble substance with high volatility. The substance has narcotic properties if inhaled at concentrations of 34 mg1 (mice) and 58 mg1 (cats) with a short duration of the narcotic action after cessation of exposure. Methy acetate is absorbed via the lung in animals and humans, absorption via the crait route is demonstrated. After absorption the substance undergoes hydrohysis to methanol and acets acid. From the variable in <i>vitro</i> data it may be anticipated that the half-like of methyl acetate in blood ranges between 2 and 4 hours. Immediately after a soluble in <i>vitro</i> data it may be anticipated that the half-like of methyl acetate in blood ranges between 2 and 4 hours. Immediately after a soluble in <i>vitro</i> data it may be anticipated that the half-like of methyl acetate in blood ranges between 2 and 4 hours. Immediately after a solub in the blood is matched to quantification (likes than 4.6 mg1) were determined indicating rupid hydrohysis and high clearance of the substance. It appears from these data that the scalewate of varading that transport of the substance differences in the metabolism were considered mainly of concern at dose levels leading to acute toxicity (matched to acute toxicity (matched to acute) toxicity. Thus rat is a useful model to indicate subacule/subchronic toxic offords: bloov subletind dosages. Assessment of the available in antivation of vapous in addition caused intration of eyes and upper respiratory tract. The narcotic concentration for mice starts at 3 4 mg1 and for cats with 56 mg1 inhalded. In humans, accidenta inhalditon of vapous is md1 vapous in addition caused intration to eyes and upper respiratory tract. The narcotic concentration for mice starts at 34 mg1 and for cats with 56 mg1 inhalded. In humans, accidenta inhalditon of vapous of md1 vapous in addition starts at 34 mg1 and cates aceivable. Mithing here active acting the active active acting the active acting there active active
NAPHTHA PETROLEUM, LIGHT, HYDROTREATED	The High Benzene Naphthas (HBNs; Lower Olefins and Aromatics -LOA - CAT H) Category was developed for the HPV Program by grouping ethylene manufacturing streams (products) that exhibit commonalities from both manufacturing process and compositional perspectives. Intermediates. The category includes hydrocarbon product streams associated with the ethylene industry that contain significant levels of benzene, generally with a benzene content greater than 10% and averaging about 55%. This grouping of CAS numbers represents hydrocarbon streams with a carbon number distribution that is predominantly CS- C11, through components boiling at 350 C or higher The high benzene naphthas category contains hydrocarbons (aliphatic, aromatic and olefinic) with carbon numbers predominantly in the C5-C10 range and boiling from approximately 30 deg C to 300 deg C. Members of this category contain >0.1% benzene and contain varying amounts of toluene, xylenes and n-hexane. Some category members contain naphthalenes, isoprene and 1,3-butadiene and this has been quantified where possible All the streams in this category are complex UVCBs containing = 50% paraffins, = 60% isoparaffins, = 90% olefins, = 90% naphthenics, =100% aromatics, and above 0.1% benzene. All streams within this category are expected to have the following classifications H304, H315 and H336, H340, H350 (given their composition) and a flammability classification (either H224 or H226, depending on the flash point and / or the boiling point) Benzene, as the predominant component in most streams, is expected to be the key driver with respect to health effects endpoints within the SIDS battery of tests. However, as the concentration of benzene is decreased and the concentrations of other components are increased, the observed effects of benzene are expected to diminish and the effects of other components are expected to increase. The existing epidemiology and toxicology database for the components other than benzene and for mixtures containing the components is extensi

	genetic damage and adverse target organ effects in re Benzene Naphthas streams are metabolized through a for the same active enzyme sites. Component toxicitie as less metabolite(s) will be produced through compet components is provided by results of an existing mous Hydrotreated C6-8 Fraction. This stream, containing a when administered by oral gavage at 5000 mg/kg to m to CD-1 mice induces high frequencies of micronuclei Hydrotreated C6-8 Fraction of other components (app 2% hexane) apparently inhibited the expected clastoge also been reported. <b>Repeat dose toxicity:</b> Repeated oral or inhalation exp cause adverse health effects in a variety of organs. Ho between some components comprising the streams. <b>Developmental toxicity:</b> Developmental toxicity data these studies, no convincing evidence was seen for te components, but mostly in the presence of maternal to Gasoline Fraction stream similar to the Pyrolysis Gaso in rabbits. No developmental effects were seen. <b>Reproductive toxicity:</b> Some data for benzene indicar moderate increases in abnormal sperm forms), data ou indicate no effects on reproductive indices, even at hig hexane. <b>Gene Mutation:</b> Of the identified category component and benzene have consistently caused gene mutation Benzene was negative in several standard tests but w data for components, the streams in the category are thromosome Aberration:: Benzene has caused chro streams in this category, toluene, is negative in both <i>in</i> concentrations greater than 5%, only vinyl acetate, 1,3 aberrations. For petroleum: This product contains benzene, which <i>i</i> compounds which are toxic to the nervous system. Th to hearing loss. This product contains etnyl benzene a Cancer-causing potential: Animal testing shows inhalir be relevant in humans. Mutation-causing potential: Animal testing shows inhalir be relevant in humans. Mutation-causing potential: Animal studies show that high c weight and developmental toxicity to the nervous system Human effects: Prolonged or repeated contact may ca susceptible to irri	a common P450 metabolic pathway, i s, which are dependent on the format ition for these sites. Direct support foi se bone marrow micronucleus test wit pproximately 55% benzene, was neg- hale and female CD-1 mice. Several s in bone marrow erythrocytes at doses roximately 25% toluene, 10% xylene, enicity of benzene. Other similar inter- bosures to many of the components of owever, existing data also show that a exist for most components present in ratogenicity in the absence of matern boxicity. A Pyrolysis bline streams in the HBNS Category has a exist for most components greater the sin genetic toxicity tests . 1,3- Butadi as positive in an <i>in vivo</i> HPRT gene in predicted to be negative in the HPV g and one similar to category streams) sto prosome aberrations in <i>in vitro</i> and <i>in o</i> vitro and <i>in vivo</i> tests. Of the remain 3-butadiene, isoprene, hexane, and na can cause acute myeloid leukaemia, a is product contains toluene, and anim in d naphthalene, from which animal the ing petroleum causes tumours of the li oline have returned negative results r petrol service station attendants). oncentrations of toluene (>0.1%) can em of the foetus. Other studies show in use defatting of the skin which can le ials.	t is anticipated that multiple components will compete ion of biologically active metabolites, may be reduced reduction or elimination of toxicities of individual h one of the High Benzene Naphthas streams, attive in a mouse bone marrow micronucleus test tudies have shown that benzene administered orally s as low as 110 mg/kg. The presence in the 7% pentane, 7% ethylbenzene, 3% cyclohexane, and actions between components of the category have f the streams in the category have been shown to intagonistic and synergistic interactions occur this category at concentrations greater than 5%. In al toxicity. Foetotoxicity has been reported for some as been tested in an oral developmental toxicity study ophy/degeneration, decrease in spermatozoa, conclusive or conflicting. However, most studies were seen after inhalation exposure to isoprene and an 5%, only 1,3-butadiene ene was positive in several <i>in vivo</i> and <i>in vitro</i> tests. nutation test in mouse spleenocytes. Based on the ene mutation test (Ames Test). Negative Ames Tests upport this prediction <i>n vivo</i> tests. The other most prevalent component in ing identified category components present at aphthalene have been reported to cause chromosome and n-hexane, which can be metabolized to al studies suggest high concentrations of toluene lead esting shows evidence of tumour formation. ver and kidney; these are however not considered to egarding the potential to cause mutations, including cause developmental effects such as lower birth no adverse effects on the foetus. ad to skin inflammation and may make the skin more			
Tensorgrip X41 Acoustic Panel 500ml Aerosol Spray Adhesive & NAPHTHA PETROLEUM, LIGHT, HYDROTREATED	Animal testing shows that exposure to gasoline over a lifetime can cause kidney cancer, but the relevance in humans is questionable. Studies indicate that normal, branched and cyclic paraffins are absorbed from the mammalian gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with liftle absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent that iso- or cyclo-paraffins. The major classes of hydrocarbons have been shown to be well absorbed by the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with dietary lipids. The dependence of hydrocarbon absorption on concomitant triglyceride digestion and absorption, is known as the 'hydrocarbon continuum hypothesis', and asserts that a series of solubilising phases in the intestinal lumen, created by dietary triglycerides and their digestion products, afford hydrocarbons a route to the lipid phase of the intestinal absorptive cell (enterocyte) membrane. While some hydrocarbons may traverse the mucosal epithelium unmetabolised and appear as solutes in lipoprotein particles in intestinal lymph, there is evidence that most hydrocarbons partially separate from nutrient lipids and undergo metabolic transformation in the enterocyte. The enterocyte may play a major role in determining the proportion of an absorbed hydrocarbon that, by escaping initial biotransformation, becomes available for deposition in its unchanged form in peripheral tissues such as adipose tissue, or in the liver.					
Acute Toxicity	×	Carcinogenicity	×			
Skin Irritation/Corrosion	¥	Reproductivity	×			
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓			

Acute TOXICITY	^	Carcinogenicity	· •
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
			at available as door not fill the aritaria for elegation

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

# **SECTION 12 Ecological information**

Tensorgrip X41 Acoustic	Endpoint	Test Duration (hr)	Test Duration (hr)         Species           Not Available         Not Available		Value		Source	
Panel 500ml Aerosol Spray Adhesive	Not Available	Not Available			Not Available		Not Available	
	Endneint	Tool Duration (br)	Species			Value	6.	ource
acetone	Endpoint	Test Duration (hr)	Species			value	50	Jurce
	LC50	96h	Fish			3744.6-5000.7mg	/L 4	
	NOEC(ECx)	12h	Fish	Fish		0.001mg/L	4	
	EC50	72h	Algae or	Algae or other aquatic plants		5600-10000mg/l		
	EC50	48h	Crustace	Crustacea		6098.4mg/L		
	EC50	96h	Algae or	other aquatic plants		9.873-27.684mg/l	4	

	Endpoint	Те	st Duration (hr)	Spec	ies		Value		Source
	EC50	72	2h Algae or othe		or other aquatic plants >1		>120mg/	1	1
methyl acetate	EC50	48	h	Crus	tacea		1026.7m	g/l	1
	NOEC(ECx)	72	2h Alg		gae or other aquatic plants		>=120mg	g/I	1
	LC50	96	ĥ	Fish			250mg/l		1
	Endpoint	Те	est Duration (hr)	Sp	ecies		Value	•	Source
	EC50	48	8h		istacea		0.64m	ng/l	2
naphtha petroleum, light, hydrotreated	EC50	96	6h	Alg	ae or other aquatic plants		64mg	/I	2
	LC50	96	96h		Fish		4.26mg/l		2
	NOEC(ECx)	50	04h	Crustacea		0.17m	ng/l	2	
	Endpoint	Te	st Duration (hr)	Spec	ies		Value		Source
	EC50	48	h	Crust	acea		>4400mg/	L	2
dimethyl ether	EC50	96	h	Algae	or other aquatic plants		154.917m	g/l	2
	LC50	96	h	Fish r		1783.04m	g/l	2	
	NOEC(ECx)	48	h	Crust	acea		>4000mg/	I	1
	Endpoint		Test Duration (hr)		Species	Value		Source	
Non-hazardous ingredients	Not Available		Not Available		Not Available	Not Available		Not Ava	ilable
Legend:	Extracted from 1. I	UCLID T	oxicity Data 2. Europe E0	CHA Regist	ered Substances - Ecotox	icological Informa	tion - Aqua	tic Toxicity	/ 4. US EP/

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

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

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

When released in the environment, alkanes don't undergo rapid biodegradation, because they have no functional groups (like hydroxyl or carbonyl) that are needed by most organisms in order to metabolize the compound.

However, some bacteria can metabolise some alkanes (especially those linear and short), by oxidizing the terminal carbon atom. The product is an alcohol, that could be next oxidised to an aldehyde, and finally to a carboxylic acid. The resulting fatty acid could be metabolised through the fatty acid degradation pathway.

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)
methyl acetate	LOW	LOW
dimethyl ether	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation		
acetone	LOW (BCF = 0.69)		
methyl acetate	LOW (LogKOW = 0.18)		
dimethyl ether	LOW (LogKOW = 0.1)		

# Mobility in soil

Ingredient	Mobility		
acetone	HIGH (KOC = 1.981)		
methyl acetate	MEDIUM (KOC = 3.324)		
dimethyl ether	HIGH (KOC = 1.292)		

# **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Discharge contents of damaged aerosol cans at an approved site.</li> <li>Allow small quantities to evaporate.</li> <li>DO NOT incinerate or puncture aerosol cans.</li> </ul>

Bury residues and emptied aerosol cans at an approved site.

# **SECTION 14 Transport information**

Labels Required		
Marine Pollutant		
HAZCHEM	Not Applicable	

# Land transport (ADG)

14.1. UN number or ID number	1950		
14.2. UN proper shipping name	AEROSOLS (contains acetone)		
14.3. Transport hazard class(es)	Class2.1Subsidiary HazardNot Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Environmentally hazardous		
14.6. Special precautions for user	Special provisions63 190 277 327 344 381Limited quantity1000ml		

# Air transport (ICAO-IATA / DGR)

14.1. UN number	1950			
14.2. UN proper shipping name	Aerosols, flammable (contains acetone)			
	ICAO/IATA Class 2.1			
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
Class(CS)	ERG Code 10L			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Environmentally hazardous			
	Special provisions		A145 A167 A802	
	Cargo Only Packing Instructions		203	
	Cargo Only Maximum Qty / Pack		150 kg	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		203	
user	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		
14.2. UN proper shipping name	AEROSOLS (contains acetone)		
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Hazard	2.1 Not Applicable	
14.4. Packing group	Not Applicable		
14.5 Environmental hazard	Marine Pollutant		
14.6. Special precautions for user	Special provisions 63	D , S-U 9 190 277 327 344 381 959 100 ml	

Not Applicable

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

Product name	Group
acetone	Not Available
methyl acetate	Not Available
naphtha petroleum, light, hydrotreated	Not Available
dimethyl ether	Not Available
Non-hazardous ingredients	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
acetone	Not Available
methyl acetate	Not Available
naphtha petroleum, light, hydrotreated	Not Available
dimethyl ether	Not Available
Non-hazardous ingredients	Not Available

# SECTION 15 Regulatory information

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

# acetone 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)

# methyl acetate is found on the following regulatory lists

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

# naphtha petroleum, light, hydrotreated 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

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

## 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)

# Non-hazardous ingredients is found on the following regulatory lists

Not Applicable

## Additional Regulatory Information

Not Applicable

#### **National Inventory Status**

National Inventory	Status			
Australia - AIIC / Australia Non-Industrial Use	Yes			
Canada - DSL	Yes			
Canada - NDSL	No (acetone; methyl acetate; naphtha petroleum, light, hydrotreated; dimethyl ether)			
China - IECSC	Yes			
Europe - EINEC / ELINCS / NLP	Yes			
Japan - ENCS	No (naphtha petroleum, light, hydrotreated)			
Korea - KECI	Yes			
New Zealand - NZIoC	Yes			
Philippines - PICCS	Yes			
USA - TSCA	Yes			
Taiwan - TCSI	Yes			
Mexico - INSQ	Yes			
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.			

end of SDS

# Tensorgrip X41 Acoustic Panel 500ml Aerosol Spray Adhesive

#### **SECTION 16 Other information**

Revision Date	05/02/2024
Initial Date	27/04/2022
SDS Version Summary	
,	
	Date of

Version	Date of Update	Sections Updated
3.5	04/02/2024	Hazards identification - Classification, Firefighting measures - Fire Fighter (fire/explosion hazard), Composition / information on ingredients - Ingredients

#### Other information

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
- ۲ 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 ٠
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- 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
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas ۲
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances