

"From Strength to Strength"

# Conform 35%

## Vespol Pty Ltd

Chemwatch: 5384-60 Version No: 3.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 1

lssue Date: 12/11/2019 Print Date: 20/11/2019 S.GHS.AUS.EN

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

#### Product Identifier

Product name	Conform 35%			
Synonyms	Not Available			
Other means of identification	Not Available			
Relevant identified uses of the substance or mixture and uses advised against				

Relevant identified uses Woodfibre softboard for building applications.

## Details of the supplier of the safety data sheet

Registered company name	Vespol Pty Ltd
Address	26 Garner PI Ingleburn NSW 2565 Australia
Telephone	+61 2 8795 5100
Fax	+61 2 9618 3155
Website	www.vespol.com.au
Email	sales@vespol.com.au

#### Emergency telephone number

Association / Organisation	Kathy Milewicz				
Emergency telephone numbers	1 2 8795 5100 (Mon-Fri 8am to 4pm)				
Other emergency telephone numbers	Not Available				

#### **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

Poisons Schedule	Not Applicable				
Classification <sup>[1]</sup>	Not Applicable				
Label elements					
Hazard pictogram(s)	Not Applicable				
SIGNAL WORD	NOT APPLICABLE				

#### Hazard statement(s)

Not Applicable

#### Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name			
Not Available	NotSpec	pine wood fibre softboard			
8052-42-4	NotSpec	bitumen (petroleum)			
Not Available	NotSpec	paraffin, proprietary			
Not Available	NotSpec	plant oil, proprietary			

## **SECTION 4 FIRST AID MEASURES**

### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with eyes:</li> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin or hair contact occurs: <ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 FIREFIGHTING MEASURES

### Extinguishing media

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

### Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result						
Advice for firefighters							
<ul> <li>Fire Fighting</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>							
Fire/Explosion Hazard	<ul> <li>Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.</li> <li>In the same way as gases and vapours, dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Niinimum Explosible Concentration", MEC).</li> <li>When processed with flammable liquids/vapors/mists, ignitable (hybrid) mixtures may be formed with combustible dust. Ignitable mixtures will increase the rate of explosion or dust.</li> <li>A dust explosion may release of large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people.</li></ul>						

	<ul> <li>widely from sample to sample, depending of how the powder was manufactured and handled; this means that it is virtually impossible to use flammability data published in the literature for dusts (in contrast to that published for gases and vapours).</li> <li>Autoignition temperatures are often quoted for dust clouds (minimum ignition temperature (MIT)) and dust layers (layer ignition temperature (LIT)); LIT generally falls as the thickness of the layer increases.</li> <li>Combustion products include:</li> <li>carbon monoxide (CO)</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>
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 contact with skin and eyes.</li> <li>Wear impervious gloves and safety glasses.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Do NOT use air hoses for cleaning</li> <li>Place spilled material in clean, dry, sealable, labelled container.</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>Control personal contact with the substance, by using protective equipment and dust respirator.</li> <li>Prevent spillage from entering drains, sewers or water courses.</li> <li>Avoid generating dust.</li> <li>Sweep, shovel up. Recover product wherever possible.</li> <li>Put residues in labelled plastic bags or other containers for disposal.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

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

### SECTION 7 HANDLING AND STORAGE

Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers security sealed when not in use.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Avoid contact with neurol sealed when not in use.</li> <li>Avoid contast with scap and water after handling.</li> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-ari mixtures and result in a fire or dust explosion (including secondary explosions)</li> <li>Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.</li> <li>Establish good housekeeping practices.</li> <li>Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.</li> <li>Use continuous suction at points of dust generation to capture and minimise the accumulation of dusts. Particular attention should be given to overhead and hidden horizontal surfaces to minimise the probability of a "secondary" explosion. According to NFPA Standard 654, dust layers 1/32 in (0.8 mm) thick can be sufficient to warrant immediate cleaning of the area.</li> <li>Do not use air hoses for cleaning.</li> <li>Minimise dry sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Vacuums with explosion-proof motors should be used.</li></ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> </ul>

	<ul> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>For major quantities:</li> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>
Conditions for safe storage, in	cluding any incompatibilities
Suitable container	<ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> <li>Polyliner drum.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>

Storage incompatibility

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	bitumen (petroleum)	Bitumen fumes	5 mg/m3	m3 Not Available		Not Available		Not Available
EMERGENCY LIMITS								
Ingredient	Material name		TEEL-1		TEEL-2		TEEL-3	
bitumen (petroleum)	Petroleum asphalt; (Bitumen)		30 mg/m3		330 mg/m3		2,000 mg/m3	
Ingredient	Original IDLH		Revised IDLH					
bitumen (petroleum)	Not Available	Not Available						

#### Exposure controls

<ul> <li>be highly effective in protecting workers and will typically be The basic types of engineering controls are:</li> <li>Process controls which involve changing the way a job activi Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilatio ventilation system must match the particular process and che Employers may need to use multiple types of controls to prev</li> <li>Local exhaust ventilation is required where solids are ha proportion will be powdered by mutual friction.</li> <li>Exhaust ventilation should be designed to prevent accur</li> <li>If in spite of local exhaust an adverse concentration of th</li> </ul>	independent of worker interactions to provide this high level ty or process is done to reduce the risk. I selected hazard "physically" away from the worker and worke	rel of protection. entilation that strategically perly. The design of a relatively large, a certain
	absorption cartridge:	
(c): fresh-air hoods or masks	the provented by bonding and grounding	
		such as explosion venting.
		re velocities" of fresh
		Ain One and
	······································	Air Speed:
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) 1-2.5 m/s (200-500 f/min.)		· · ·
grinding, abrasive blasting, tumbling, high speed wheel ge of very high rapid air motion).	nerated dusts (released at high initial velocity into zone	2.5-10 m/s (500-2000 f/min.)
Within each range the appropriate value depends on:		
Lower end of the range	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	
with the square of distance from the extraction point (in simp accordingly, after reference to distance from the contaminatii 4-10 m/s (800-2000 f/min) for extraction of crusher dusts ger	le cases). Therefore the air speed at the extraction point and source. The air velocity at the extraction fan, for examplerated 2 metres distant from the extraction point. Other n	should be adjusted, ble, should be a minimum of nechanical considerations,
	<ul> <li>be highly effective in protecting workers and will typically be The basic types of engineering controls are:</li> <li>Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilatio ventilation system must match the particular process and chemployers may need to use multiple types of controls to pre</li> <li>Local exhaust ventilation is required where solids are haproportion will be powdered by mutual friction.</li> <li>Exhaust ventilation should be designed to prevent accur</li> <li>If in spite of local exhaust an adverse concentration of th protection might consist of:</li> <li>(a): particle dust respirators, if necessary, combined with an (b): filter respirators with absorption cartridge or canister of th (c): fresh-air hoods or masks</li> <li>Build-up of electrostatic charge on the dust particle, may</li> <li>Powder handling equipment such as dust collectors, dry Air contaminants generated in the workplace possess varyin circulating air required to efficiently remove the contaminant.</li> <li>Type of Contaminant:</li> <li>direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)</li> <li>grinding, abrasive blasting, tumbling, high speed wheel ge of very high rapid air motion).</li> <li>Within each range the appropriate value depends on:</li> <li>Lower end of the range</li> <li>1: Room air currents minimal or favourable to capture</li> <li>2: Contaminants of low toxicity or of nuisance value only</li> <li>3: Intermittent, low production.</li> <li>4: Large hood or large air mass in motion</li> <li>Simple theory shows that air velocity falls rapidly with distanc with the square of distance from the extraction point (in simp accordingly, after reference to distance from the contaminatii 4-10 m/s (800-2000 f/min) for extraction of crusher dusts ger producing performance deficits within the extraction apparation</li> </ul>	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 v         *adds" and "removes" air in the work environment. Venillation can remove or dilute an air contaminant if designed proventilation 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.         • Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are proportion will be powdered by mutual friction.         • Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace.         • If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection sho protection might consist of:         (a): particle dust respirators, if necessary, combined with an absorption cartridge;         (b): filter respirators with absorption cartridge or canister of the right type;         (c): fresh-air hoods or masks         • Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding.         • Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures         Air contaminant:       direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)         grinding, abrasive blasting, tum

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Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	The selection of suitable gloves does not only depend on the material, but also on further marks of quality wintin any from mandacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact threads through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hyginer is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: • chemical resistance of glove material, • glove thickness and • dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). • When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.1.0 re national equivalent) is recommended. • When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.1.0 re national equivalent) is recommended. • Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. • Contaminated gloves should be replaced. As defined in ASTM F739-96 in any application, gloves are rated as: • Excellent when breakthrough time > 20 min • Foor when glove material degrades For greenal agplications, gloves with a thickness bypically greater than 0.35 mm, are recommended. It should be emphasised that glove michaness spipically greater than 0.35 mm, are recommended. It dependent on the easthrough time
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Barrier cream. • Eyewash unit.

### **Respiratory protection**

Type A-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	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-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)

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.
- Try to avoid creating dust conditions.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance Black solid with characteristic odour; insoluble in water.

Physical state	Solid	Relative density (Water = 1)	~0.31-0.35
Odour	Characteristic	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	5-6 @20C	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

### SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</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

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.		
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.		
Chronic	Long-term exposure to the product is not thought to prod models); nevertheless exposure by all routes should be r	uce chronic effects adverse to the health (as classified by EC Directives using animal ninimised as a matter of course.	
0	TOXICITY	IRRITATION	
Conform 35%	Not Available	Not Available	
	TOXICITY	IRRITATION	
bitumen (petroleum)	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	

	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	Skin: no adverse	effect observed (not irritating) <sup>[1]</sup>
Legend:	1. Value obtained from Europe ECHA Registered Subs specified data extracted from RTECS - Register of Tox	3	ained from manufacturer's SDS. Unless otherwise
BITUMEN (PETROLEUM)	Asthma-like symptoms may continue for months or eve known as reactive airways dysfunction syndrome (RAL criteria for diagnosing RADS include the absence of pr asthma-like symptoms within minutes to hours of a doc airflow pattern on lung function tests, moderate to seve lymphocytic inflammation, without eosinophilia. RADS the concentration of and duration of exposure to the irr result of exposure due to high concentrations of irritatir disorder is characterized by difficulty breathing, cough No significant acute toxicological data identified in litera <b>WARNING:</b> This substance has been classified by the	DS) which can occur after exposure to evious airways disease in a non-atop sumented exposure to the irritant. Other are bronchial hyperreactivity on meth (or asthma) following an irritating inhi itating substance. On the other hand ng substance (often particles) and is and mucus production. ature search.	b high levels of highly irritating compound. Main bic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal alation is an infrequent disorder with rates related to , industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		•	not available or does not fill the criteria for classificatior le to make classification

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Conform 35%	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
bitumen (petroleum)	LC50	96	Fish	>1-mg/L	2
	EC50	72	Algae or other aquatic plants	>1-mg/L	2
Legend:	V3.12 (QSAR) -	1. IUCLID Toxicity Data 2. Europe ECHA Registere Aquatic Toxicity Data (Estimated) 4. US EPA, Eco apan) - Bioconcentration Data 7. METI (Japan) - B	tox database - Aquatic Toxicity Data 5. ECE	, ,	

#### DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients
Bioaccumulative potential		
Bioaccumulative potential		
Ingredient	Bioaccumulation	
	No Data available for all ingredients	
Mobility in soil		
Ingredient	Mobility	

## SECTION 13 DISPOSAL CONSIDERATIONS

No Data available for all ingredients

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Recycle wherever possible.</li> <li>Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> <li>Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material)</li> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>

## SECTION 14 TRANSPORT INFORMATION

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Conform 35%

Marine Pollutant NO HAZCHEM

Not Applicable

#### Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

Not Applicable

# SECTION 15 REGULATORY INFORMATION

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

#### BITUMEN (PETROLEUM) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Australia Inventory of Chemical Substances (AICS)	Monographs

#### National Inventory Status

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (bitumen (petroleum))
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (bitumen (petroleum))
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

#### **SECTION 16 OTHER INFORMATION**

Revision Date	12/11/2019
Initial Date	07/11/2019

#### **SDS Version Summary**

Version	Issue Date	Sections Updated
3.1.1.1	12/11/2019	Name

#### 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

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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