

Ardex (Ardex Australia)

Chemwatch: **72-1170** Version No: **2.1.1.1**

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: **02/12/2016** Print Date: **05/12/2016** S.GHS.AUS.EN

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

Product Identifier

Product name	ARDEX BR 10 ZP
Synonyms	Not Available
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Other means of identification	Not Available

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

Relevant identified uses For spray cans.

Details of the supplier of the safety data sheet

Registered company name	Ardex (Ardex Australia)	Ardex (Ardex NZ)
Address	20 Powers Road Seven Hills NSW 2147 Australia	32 Lane Street Woolston Christchurch New Zealand
Telephone	1800 224 070	+64 3373 6928
Fax	1300 780 102	+64 3384 9779
Website	Not Available	Not Available
Email	Not Available	Not Available

Emergency telephone number

Association / Organisation	Not Available	Not Available
Emergency telephone numbers	1800 224 070 (Mon-Fri, 9am-5pm)	+64 3373 6900
Other emergency telephone numbers	Not Available	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

CHEMWATCH HAZARD RATINGS

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

Poisons Schedule	S5
Classification ^[1]	Flammable Liquid Category 2, Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Specific target organ toxicity - single exposure Category 3 (narcotic effects), Acute Aquatic Hazard Category 1, Chronic Aquatic Hazard Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Label elements

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SIGNAL WORD

DANGE

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
AUH066	Repeated exposure may cause skin dryness and cracking

Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P271	se in a well-ventilated area.	
P240	Ground/bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.	

Precautionary statement(s) Response

P362	Take off contaminated clothing and wash before reuse.	
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	

Precautionary statement(s) Disposal

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

IIIIXtui 00		
CAS No	%[weight]	Name
7440-66-6	30-60	<u>zinc powder</u>
1330-20-7	10-30	xylene
123-86-4	10-30	n-butyl acetate
64742-95-6.	<10	naphtha petroleum, light aromatic solvent
78-83-1	<10	isobutanol
108-65-6	<10	propylene glycol monomethyl ether acetate, alpha-isomer
8008-20-6	<10	kerosene
71-36-3	<10	<u>n-butanol</u>
		Ingredients determined not to be hazardous

SECTION 4 FIRST AID MEASURES

Eye Contact

Description of first aid measures

If this product comes in contact with the eyes:

- ▶ Wash out immediately with fresh running water.
- ▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- ▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.
- ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

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Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. Avoid giving alcohol. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- ► Alcohol stable foam.
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	► Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
Advice for firefighters			
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water course. 		
Fire/Explosion Hazard	 Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. 		
HAZCHEM	•3YE		

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

	5 -r
Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves.

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

SECTION 7 HANDLING AND STORAGE

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► Containers, even those that have been emptied, may contain explosive vapours.

- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- ▶ Electrostatic discharge may be generated during pumping this may result in fire.
- Ensure electrical continuity by bonding and grounding (earthing) all equipment.
 Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec="" until="" fill="" pipe="" submerged="" to=""
- twice="" its="" diameter,="" then=""><= 7="">
- ▶ Do NOT use compressed air for filling discharging or handling operations.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

Other information

Safe handling

- ▶ Store in original containers in approved flame-proof area.
- No smoking, naked lights, heat or ignition sources.
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- Keep containers securely sealed.

Conditions for safe storage, including any incompatibilities

Suitable container

- ▶ Packing as supplied by manufacturer.
- ▶ Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks.
- For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure.

▶ Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents.

- ▶ For materials with a viscosity of at least 2680 cSt. (23 deg. C)
- ► For manufactured product having a viscosity of at least 250 cSt.

► Aromatics can react exothermically with bases and with diazo compounds.

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Storage incompatibility

For alkyl aromatics:
The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic

The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring.

Following reaction with oxygen and under the influence of sunlight, a hydroperoxide at the alpha-position to the aromatic ring, is the primary oxidation product

- Following reaction with oxygen and under the influence of sunlight, a hydroperoxide at the aligna-position to the aromatic ring, is the primary oxidation product formed (provided a hydrogen atom is initially available at this position) this product is often short-lived but may be stable dependent on the nature of the aromatic substitution; a secondary C-H bond is more easily attacked than a primary C-H bond whilst a tertiary C-H bond is even more susceptible to attack by oxygen
- Monoalkylbenzenes may subsequently form monocarboxylic acids; alkyl naphthalenes mainly produce the corresponding naphthalene carboxylic acids.
- ▶ Oxidation in the presence of transition metal salts not only accelerates but also selectively decomposes the hydroperoxides.

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	zinc powder	Fume (thermally generated) (respirable dust)	2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	xylene	Xylene (o-, m-, p- isomers)	350 mg/m3 / 80 ppm	655 mg/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	n-butyl acetate	n-Butyl acetate	713 mg/m3 / 150 ppm	950 mg/m3 / 200 ppm	Not Available	Not Available
Australia Exposure Standards	isobutanol	Isobutyl alcohol	152 mg/m3 / 50 ppm	Not Available	Not Available	Not Available
Australia Exposure Standards	propylene glycol monomethyl ether acetate, alpha-isomer	1-Methoxy-2-propanol acetate	274 mg/m3 / 50 ppm	548 mg/m3 / 100 ppm	Not Available	Sk
Australia Exposure Standards	kerosene	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	n-butanol	n-Butyl alcohol	Not Available	Not Available	152 mg/m3 / 50 ppm	Sk

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
zinc powder	Zinc	6 mg/m3	21 mg/m3	120 mg/m3
xylene	Xylenes	Not Available	Not Available	Not Available
n-butyl acetate	Butyl acetate, n-	Not Available	Not Available	Not Available
isobutanol	Isobutyl alcohol	150 ppm	1,300 ppm	8000 ppm
propylene glycol monomethyl ether acetate, alpha-isomer	Propylene glycol monomethyl ether acetate, alpha-isomer; (1-Methoxypropyl-2-acetate)	Not Available	Not Available	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	Propylene glycol monomethyl ether acetate, beta-isomer; (2-Methoxypropoyl-1-acetate)	Not Available	Not Available	Not Available
kerosene	Mineral oil, heavy or light; (paraffin oil; Deobase, deodorized; heavy paraffinic; heavy naphthenic); distillates; includes 64741-53-3, 64741-88-4, 8042-47-5, 8012-95-1; 64742-54-7	140 mg/m3	1,500 mg/m3	8,900 mg/m3
n-butanol	Butyl alcohol, n-; (n-Butanol)	60 ppm	800 ppm	8000 ppm

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Ingredient	Original IDLH	Revised IDLH
zinc powder	Not Available	Not Available
xylene	1,000 ppm	900 ppm
n-butyl acetate	10,000 ppm	1,700 [LEL] ppm
naphtha petroleum, light aromatic solvent	Not Available	Not Available
isobutanol	8,000 ppm	1,600 ppm
propylene glycol monomethyl ether acetate, alpha-isomer	Not Available	Not Available
kerosene	Not Available	Not Available
n-butanol	8,000 ppm	1,400 [LEL] ppm

Exposure controls

Appropriate engineering controls

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

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Personal protection











Eye and face protection

- Safety glasses with side shields
- ► Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

Skin protection

See Hand protection below

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

For esters:

▶ Do NOT use natural rubber, butyl rubber, EPDM or polystyrene-containing materials.

Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer 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 break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care.

Body protection

See Other protection below

- Overalls.
 PVC Apron.
 PVC protective
 Evewash unit
- ▶ PVC protective suit may be required if exposure severe

Other protection

•Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.
•For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).

Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds.

Thermal hazards

Not Available

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

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

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Material	СРІ
##n-butyl	acetate
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С

Respiratory protection

Type A 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 / Class 1	-	A-PAPR-AUS / Class 1
up to 50 x ES	Air-line*	-	-
up to 100 x ES	-	A-3	-
100+ x ES	-	Air-line**	-

* - Continuous-flow; ** - Continuous-flow or positive pressure demand 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

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PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
TEFLON	С
VITON	С
VITON/BUTYL	С

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.

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Coloured highly flammable liquid with solvent odour; not miscible with wat	er.	
Physical state	Liquid	Relative density (Water = 1)	1.7
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	118	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	20	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	8	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1	Volatile Component (%vol)	22
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	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	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

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

Inhaled Inhalation hazard is increased at higher temperatures.

Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.

Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.

^{*} 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

^{*} 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.

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Shir Contact with fer managed may be brankle protection for the ray would believe place contact with a charge of contact and the contact of the size where the charge discontant cause and the contact of the size where the charge discontant cause and the contact of the charge and believe place of contact with a charge of contact or the contact of the charge and believe place of the charge of t	Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate damage to the health of the individual. Swallowing of the liquid may cause aspiration into the lungs with the risk of che Not a likely route of entry into the body in commercial or industrial environments harmful or toxic if swallowed.	mical pneumonitis; serious consequences may result. (ICSC13733)
To secretary the part of the part of the discontinuous control of counting pair and severe conjunctions. Corneal righty may develop, with possible promoters for representative insperation of vision. First promoters are presented in control of vision. First promoters for presented in control of vision, or for promoters and secondary promoters. Chronic Substance accountment on the numbers of present our control of vision or promoters. Provide and the vision of vision of promoters of vision of	Skin Contact	The material may cause moderate inflammation of the skin either following direc dermatitis which is characterised by redness, swelling and blistering. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, material	trontact or after a delay of some time. Repeated exposure can cause contact
Preference of the process of the p	Еуе	may be expected with pain. The liquid produces a high level of eye discomfort and is capable of causing pai	
Not Available	Chronic	Prolonged or repeated skin contact may cause drying with cracking, irritation at Substance accumulation, in the human body, may occur and may cause some co	nd possible dermatitis following. oncern following repeated or long-term occupational exposure.
Not Available		=2002=0	!
TOXICITY	ARDEX BR 10 ZP		
Demail (nabbit) LD50: 1130 mg/kg ^[2] Not Available		Not Available	NOTAVAIIAUTE
TOXICITY		TOXICITY	IRRITATION
TOXICITY Demai (rabbi) LD50: >1700 mg/kg ^[2] Eye (rabbi): 200 ppm Hitant	zinc powder	Dermal (rabbit) LD50: 1130 mg/kg ^[2]	Not Available
Dermal (rabbit) LD60: >1700 mg/kg ^[7] Eye (numar): 200 ppm initiant		Oral (rat) LD50: >2000 mg/kg ^[1]	1 1 1
Inhalation (rat) LC50: 5000 ppm/4tr ^[2] Eye (rabbit): 5 mg/24h SEVERE		TOXICITY	IRRITATION
Drail (rat) LD50- 4300 mg/kg ^[2] Eye (rabbit): 87 mg mild Skin (rabbit): 500 mg/24h moderate		Dermal (rabbit) LD50: >1700 mg/kg ^[2]	Eye (human): 200 ppm irritant
TOXICITY	xylene	Inhalation (rat) LC50: 5000 ppm/4hr ^[2]	Eye (rabbit): 5 mg/24h SEVERE
TOXICITY		Oral (rat) LD50: 4300 mg/kg ^[2]	Eye (rabbit): 87 mg mild
Dermal (rabbit) LD50: >14080 mg/kg ^[1] Eye (human): 300 mg Inhalation (rat) LC50: 2000 ppm/4hr ^[2] Eye (rabbit): 20 mg (open)-SEVERE Inhalation (rat) LC50: 390 ppm/4hr ^[2] Eye (rabbit): 20 mg (open)-SEVERE Inhalation (rat) LC50: 390 ppm/4hr ^[2] Eye (rabbit): 20 mg/24h - moderate Cral (rat) LD50: 10736 mg/kg ^[1] Skin (rabbit): 500 mg/24h - moderate TOXICITY			Skin (rabbit):500 mg/24h moderate
Dermal (rabbit) LD50: >14080 mg/kg ^[1] Eye (human): 300 mg Inhalation (rat) LC50: 2000 ppm/4hr ^[2] Eye (rabbit): 20 mg (open)-SEVERE Inhalation (rat) LC50: 390 ppm/4hr ^[2] Eye (rabbit): 20 mg (open)-SEVERE Inhalation (rat) LC50: 390 ppm/4hr ^[2] Eye (rabbit): 20 mg/24h - moderate Cral (rat) LD50: 10736 mg/kg ^[1] Skin (rabbit): 500 mg/24h - moderate TOXICITY		TOXICITY	IRRITATION
Inhalation (rat) LC50: 2000 ppm/shr ^[2] Eye (rabbit): 20 mg (open)-SEVERE Inhalation (rat) LC50: 390 ppm/shr ^[2] Eye (rabbit): 20 mg (open)-SEVERE Inhalation (rat) LC50: 390 ppm/shr ^[2] Eye (rabbit): 20 mg/24h - moderate Cval (rat) LC50: 19736 mg/kg ^[1] Skin (rabbit): 500 mg/24h - moderate TOXICITY		740	1
Inhalation (rat) LCS0: 390 ppm/4rh ^[2] Eye (rabbit): 20 mg/24h - moderate	n-butyl acetate		1
Dral (rat) LD50: 10736 mg/kg ¹ Skin (rabbit): 500 mg/24h-moderate	,		Eye (rabbit): 20 mg/24h - moderate
Dermal (rabbit) LD50: >1900 mg/kg ^[1] Not Available			Skin (rabbit): 500 mg/24h-moderate
Dermal (rabbit) LD50: >1900 mg/kg ^[1] Not Available		TOYICITY	IDDITATION
Inhalation (rat) LC50: >3670 ppm/8 h -1/2 Oral (rat) LD50: >4500 mg/kg 1 Inhalation (rat) LC50: >2000 mg/kg 1 Eye (rabbit): 2 20 mg/24h-moderate Inhalation (rat) LC50: 19.2 mg/L/4hr 1 Inhalation (rat) LC50: 19.2 mg/L/4hr 1 Inhalation (rat) LC50: 19.2 mg/L/4hr 1 Oral (rat) LD50: 2460 mg/kg 2 Oral (rat) LD50: >2460 mg/kg 2 Oral (rat) LD50: >2000 mg/kg 1 Inhalation (rat) LC50: 4345 ppm/6hr 2 Oral (rat) LD50: >4345 ppm/6hr 2 Oral (rat) LD50: >14.1 ml 1 TOXICITY			1
TOXICITY IRRITATION Inhalation (rat) LD50: >2000 mg/kg ^[1] Eye (rabbit): 2 20 mg/24h-moderate Eye (rabbit): 2 20 mg/24h-moderate Eye (rabbit): 2 20 mg/24h-moderate Eye (rabbit): 2 mg/24h - SEVERE			1 Total Walliage
TOXICITY IRRITATION Eye (rabbit): 2 20 mg/24h-moderate			
Dermal (rabbit) LD50: >2000 mg/kg ^[1] Eye (rabbit): 2 20 mg/24h-moderate		Olai (tai) 2200. 71000 mg ng	
Inhalation (rat) LC50: 19.2 mg/L/4hr ^[2] Eye (rabbit): 2 mg/24h - SEVERE			IRRITATION
Inhalation (rat) LC50: 19.2 mg/L/4hr ^[2] Eye (rabbit): 2 mg/24h - SEVERE	isobutanol		<u>1 </u>
TOXICITY Germal (rat) LD50: >2000 mg/kg ^[1] Not Available		-	<u> </u>
Dermal (rat) LD50: >2000 mg/kg ^[1] Not Available		Oral (rat) LD50: 2460 mg/kg ^[2]	Skin (rabbit): mg (open)-SEVERE
Inhalation (rat) LC50: 4345 ppm/6hr ^[2]		тохісіту	IRRITATION
Inhalation (rat) LC50: 4345 ppm/6hr ^[2]		dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available
TOXICITY IRRITATION		Inhalation (rat) LC50: 4345 ppm/6hr ^[2]	
Dermal (rabbit) LD50: >2000 mg/kg ^[1] Skin (rabbit): 500 mg SEVERE		Oral (rat) LD50: >14.1 ml ^[1]	
Dermal (rabbit) LD50: >2000 mg/kg ^[1] Skin (rabbit): 500 mg SEVERE		TOXICITY	IRRITATION
Inhalation (rat) LC50: >5 mg/L/4hr ^[2] Oral (rat) LD50: >5000 mg/kg ^[2] TOXICITY IRRITATION Dermal (rabbit) LD50: 3434.4 mg/kg ^[1] Eye (human): 50 ppm - irritant			1
Oral (rat) LD50: >5000 mg/kg ^[2] TOXICITY IRRITATION	kerosene		1 1 1 1
n-butanol Dermal (rabbit) LD50: 3434.4 mg/kg ^[1] Eye (human): 50 ppm - irritant			1 1 1
n-butanol Dermal (rabbit) LD50: 3434.4 mg/kg ^[1] Eye (human): 50 ppm - irritant			
ii bulanoi			1
Innaiation (rat) LC5U: 24 mg/L/4nr ¹⁻¹ Eye (raddit): 1.6 mg-Severe	n-butanol		<u> </u>
		Innaiation (rat) LC50: 24 mg/L/4hr ^{t-1}	Eye (Iabbil). 1.0 IIIY-DEVEKE

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	Inhalation (rat) LC50: 8000 ppm/4hr ^[2]	Eye (rabbit): 24	mg/24h-SEVERE
	Oral (rat) LD50: 2292.3 mg/kg ^[1]	Skin (rabbit): 40	5 mg/24h-moderate
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. extracted from RTECS - Register of Toxic Effect of chemical Substances	* Value obtained f	rom manufacturer's SDS. Unless otherwise specified data
ZINC POWDER	Inhalation (human) TCLo: 124 mg/m3/50min. Skin (human):0.3mg/3DaysInt. mil	d	
XYLENE	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Reproductive effector in rats		
NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT	For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exproutes of absorption although systemic intoxication from dermal absorption is no quick removal. Following oral administration of the chemical to rats, 62.6% of th 1,2,4-Trimethylbenzene is lipophilic and may accumulate in fat and fatty tissues. For C9 aromatics (typically trimethylbenzenes - TMBs) Acute Toxicity Acute toxicity studies (oral, dermal and inhalation routes of exposure) have beer mixed C9 aromatic hydrocarbons (CAS RN 64742-95-6). Inhalation LC50's rang mg/m3 for 1,2,4 and 1,3,5-TMB, respectively. A rat oral LD50 reported for 1,2,4->4 ml/kg bw. These data indicate that C9 aromatic solvents show that LD50/LC3 under OECD test guidelines. Inhalation (rat) TCLo: 1320 ppm/6h/90D-I * [Devoe]	at likely to occur du e dose was recove n conducted in rats e from 6,000 to 10 TMB is 5 grams/k	te to the dermal irritation caused by the chemical prompting ered as urinary metabolites indicating substantial absorption. susing various solvent products containing predominantly the content of the
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE, ALPHA-ISOMER	for propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dip (DPMA); tripropylene glycol methyl ether (TPM). Testing of a wide variety of propylene glycol ethers Testing of a wide variety of propylene glycol ethers. Testing of a wide variety of propylene glycol ethers of the ethylene series. The common toxicities associated adverse effects on reproductive organs, the developing embryo and fetus, blood propylene glycol ethers. In the ethylene series, metabolism of the terminal hydrox A BASF report (in ECETOC) showed that inhalation exposure to 545 ppm PGN exposure to 145 ppm and 36 ppm had no adverse effects. The beta isomer of PGMEA comprises only 10% of the commercial material, the need for care in handling this chemical. [I.C.I] A BASF report (in ECETOC) showed that inhalation exposure to 545 ppm PGN exposure to 145 ppm and 36 ppm had no adverse effects. The beta isomer of PG	ropylene glycol eth with the lower mo (haemolytic effect kyl group produces MEA (beta isomer) e remaining 90% is	was associated with a teratogenic response in rabbits; but
KEROSENE	Studies indicate that normal, branched and cyclic paraffins are absorbed from the inversely proportional to the carbon chain length, with little absorption above C30 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 hydrocarbons are ingested in association with dietary lipids. for petroleum: This product contains benzene which is known to cause acute myeloid leukaemia neuropathic. This product contains toluene. There are indications from animal studies that put This product contains ethyl benzene and naphthalene from which there is eviden Carcinogenicity: Inhalation exposure to mice causes liver tumours, which are run The material may cause severe skin irritation after prolonged or repeated exposures kerosene may produce varying ranges of skin irritation, and a reversible eye irrits crusts and/or hair loss. It may worsen skin cancers. There may also be loss of well absorbed the carbon to the cause severs believed.	D. With respect to the grant of	the carbon chain lengths likely to be present in mineral oil, act in various species. In many cases, the hydrophobic ich has been shown to metabolize to compounds which are to high concentrations of toluene may lead to hearing loss. In object to humans. In Jude on contact skin redness, swelling, the production of vashed). Skin may be cracked or flaky and/or leathery, with
N-BUTANOL	for n-butanol Acute toxicity: n-Butanol (BA) was only slightly toxic to experimental animals for female rats ranged from 790 to 4360 mg/kg. Different strains of rat were used for mice, rabbits, hamsters, dogs, and male rats all fell within the same range.		
XYLENE & N-BUTYL ACETATE & ISOBUTANOL & N-BUTANOL	The material may produce severe irritation to the eye causing pronounced inflam conjunctivitis.	nmation. Repeated	d or prolonged exposure to irritants may produce
XYLENE & N-BUTYL ACETATE & ISOBUTANOL & N-BUTANOL	The material may cause skin irritation after prolonged or repeated exposure and scaling and thickening of the skin.	may produce on o	contact skin redness, swelling, the production of vesicles,
ISOBUTANOL & N-BUTANOL	Asthma-like symptoms may continue for months or even years after exposure to reactive airways dysfunction syndrome (RADS) which can occur following exported of RADS include the absence of preceding respiratory disease, in a non-atopic in to hours of a documented exposure to the irritant. A reversible airflow pattern, or on methacholine challenge testing and the lack of minimal lymphocytic inflammatof RADS.	osure to high levels ndividual, with abr n spirometry, with t	s of highly irritating compound. Key criteria for the diagnosis upt onset of persistent asthma-like symptoms within minutes he presence of moderate to severe bronchial hyperreactivity
Acute Toxicity	✓ C	arcinogenicity	0
Skin Irritation/Corrosion	✓ F	Reproductivity	0
Serious Eye Damage/Irritation	❖ STOT - Si	ngle Exposure	✓
Respiratory or Skin sensitisation	○ STOT - Repe	ated Exposure	0

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Mutagenicity 🛇

Aspiration Hazard Legend:

X − Data available but does not fill the criteria for classification
 v − Data required to make classification available

Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
inc powder	LC50	96	Fish	0.00272mg/L	4
rinc powder	EC50	48	Crustacea	0.04mg/L	5
rinc powder	EC50	72	Algae or other aquatic plants	0.106mg/L	4
rinc powder	BCF	360	Algae or other aquatic plants	9mg/L	4
zinc powder	EC50	120	Fish	0.00033mg/L	5
zinc powder	NOEC	336	Algae or other aquatic plants	0.00075mg/L	4
kylene	LC50	96	Fish	2.6mg/L	2
kylene	EC50	48	Crustacea	>3.4mg/L	2
kylene	EC50	72	Algae or other aquatic plants	4.6mg/L	2
kylene	EC50	24	Crustacea	0.711mg/L	4
kylene	NOEC	73	Algae or other aquatic plants	0.44mg/L	2
n-butyl acetate	LC50	96	Fish	18mg/L	2
n-butyl acetate	EC50	48	Crustacea	=32mg/L	1
n-butyl acetate	EC50	96	Algae or other aquatic plants	1.675mg/L	3
n-butyl acetate	EC50	96	Fish	18mg/L	2
naphtha petroleum, light aromatic solvent	EC50	48	Crustacea	=6.14mg/L	1
naphtha petroleum, light aromatic solvent	EC50	72	Algae or other aquatic plants	3.29mg/L	1
naphtha petroleum, light aromatic solvent	EC10	72	Algae or other aquatic plants	1.13mg/L	1
naphtha petroleum, light aromatic solvent	NOEC	72	Algae or other aquatic plants	=1mg/L	1
sobutanol	LC50	96	Fish	99.508mg/L	3
sobutanol	EC50	48	Crustacea	ca.600mg/L	1
sobutanol	EC50	96	Algae or other aquatic plants	451.344mg/L	3
sobutanol	EC50	384	Crustacea	23.204mg/L	3
sobutanol	NOEC	504	Crustacea	4mg/L	4
oropylene glycol monomethyl ether acetate, alpha-isomer	LC50	96	Fish	100mg/L	1
propylene glycol monomethyl ether acetate, alpha-isomer	EC50	48	Crustacea	=408mg/L	1
propylene glycol monomethyl ether acetate, alpha-isomer	EC50	96	Algae or other aquatic plants	9.337mg/L	3
propylene glycol monomethyl ether acetate, alpha-isomer	EC0	24	Crustacea	=500mg/L	1
propylene glycol monomethyl ether acetate, alpha-isomer	NOEC	336	Fish	47.5mg/L	2
n-butanol	LC50	96	Fish	88.462mg/L	3
n-butanol	EC50	48	Crustacea	>500mg/L	1
n-butanol	EC50	96	Algae or other aquatic plants	225mg/L	2
n-butanol	BCF	24	Fish	921mg/L	4
n-butanol	EC50	384	Crustacea	20.661mg/L	3
n-butanol	NOEC	48	Crustacea	415mg/L	2

Very 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.

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

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

DO NOT discharge into sewer or waterways.

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Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
n-butyl acetate	LOW	LOW
isobutanol	LOW (Half-life = 14.42 days)	LOW (Half-life = 4.15 days)
propylene glycol monomethyl ether acetate, alpha-isomer	LOW	LOW
n-butanol	LOW (Half-life = 54 days)	LOW (Half-life = 3.65 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
n-butyl acetate	LOW (BCF = 14)
isobutanol	LOW (LogKOW = 0.76)
propylene glycol monomethyl ether acetate, alpha-isomer	LOW (LogKOW = 0.56)
n-butanol	LOW (BCF = 0.64)

Mobility in soil

Ingredient	Mobility
n-butyl acetate	LOW (KOC = 20.86)
isobutanol	MEDIUM (KOC = 2.048)
propylene glycol monomethyl ether acetate, alpha-isomer	HIGH (KOC = 1.838)
n-butanol	MEDIUM (KOC = 2.443)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

- ► Containers may still present a chemical hazard/ danger when empty.
- ► Return to supplier for reuse/ recycling if possible.

Otherwise:

- F If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains. Product / Packaging
 - ▶ It may be necessary to collect all wash water for treatment before disposal.
 - In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
 - Where in doubt contact the responsible authority.
 - Recycle wherever possible.
 - ► Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
 - Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material).
 - ► Decontaminate empty containers.

SECTION 14 TRANSPORT INFORMATION

disposal

Labels Required



Marine Pollutant



HAZCHEM

•3YE

Land transport (ADG)

UN number	1263
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Transport hazard class(es)	Class 3 Subrisk Not Applicable

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Air transport (ICAO-IATA / DGR)

UN number	1263	
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, p reducing compounds)	olish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or
Transport hazard class(es)	ICAO/IATA Class 3 ICAO / IATA Subrisk Not Applicable ERG Code 3L	
Packing group	П	
Environmental hazard	Not Applicable	
	Special provisions	A3 A72 A192
	Cargo Only Packing Instructions	364
	Cargo Only Maximum Qty / Pack	60 L
Special precautions for user	Passenger and Cargo Packing Instructions	353
	Passenger and Cargo Maximum Qty / Pack	5L
	Passenger and Cargo Limited Quantity Packing Instructions	Y341
	Passenger and Cargo Limited Maximum Qty / Pack	1L

Sea transport (IMDG-Code / GGVSee)

UN number	1263
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable
Packing group	П
Environmental hazard	Marine Pollutant
Special precautions for user	EMS Number F-E, S-E Special provisions 163 367 Limited Quantities 5 L

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 th	ne substance or mixture
ZINC POWDER(7440-66-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS	o described of illiand
Australia Exposure Standards	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Australia Hazardous Substances Information System - Consolidated Lists	Monographs
Australia Inventory of Chemical Substances (AICS)	International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft
XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
N-BUTYL ACETATE(123-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	
NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT(64742-95-6.) IS FOUND ON THE	FOLLOWING REGULATORY LISTS
Australia Hazardous Substances Information System - Consolidated Lists	Australia Inventory of Chemical Substances (AICS)
ISOBUTANOL(78-83-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE, ALPHA-ISOMER(108-65-6) IS	S FOUND ON THE FOLLOWING REGULATORY LISTS
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	
KEROSENE(8008-20-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

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N-BUTANOL(71-36-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

National Inventory Status Australia - AICS Υ Canada - DSL Υ N (propylene glycol monomethyl ether acetate, alpha-isomer; n-butanol; kerosene; xylene; n-butyl acetate; naphtha petroleum, light aromatic solvent; isobutanol; Canada - NDSL zinc powder) China - IECSC Υ Europe - EINEC / ELINCS / Υ NLP Japan - ENCS N (zinc powder) Korea - KFCI Υ New Zealand - NZIoC Υ Philippines - PICCS Υ USA - TSCA Υ Y = All ingredients are on the inventory Leaend: N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name	CAS No
naphtha petroleum, light aromatic solvent	64742-95-6., 25550-14-5.
propylene glycol monomethyl ether acetate, alpha-isomer	108-65-6, 84540-57-8, 142300-82-1

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

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

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

Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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