Janji Padu Niaga Manufacturing

Chemwatch: 4798-80 Version No: 5.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 3

Issue Date: 07/06/2016 Print Date: 08/06/2016 Initial Date: Not Available S.GHS.AUS.EN

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

Product Identifier

Product name	Colorspec No Mix E Basecoat
Synonyms	14E63 E-63 HS Special Yellow Metallic/Aluminium, A14E01 E-01 Black; A14E02 E-02 Blue; A14E03 E-03 Bright Blue; A14E04 E-04 Bright Gold, A14E05 E-05 Bright Red; A14E06 E-06 Custard; A14E07 E-07 Copper; A14E10 E-10 Deep Black, A14E11 E-11 Cobalt Blue; A14E12 E-12 Maroon; A14E13 E-13 Deep Maroon; A14E14 E-14 Garnet, A14E15 E-15 Green; A14E16 E-16 Green Blue; A14E17 E-17 Green Gold; A14E18 E-18 Grey Black, A14E19 E-19 Empress Black; A14E20 E-20 Light Red Oxide; A14E21 E-21 Lime, A14E22 E-22 Magenta; A14E32 E-23 Midnight Blue; A14E24 E-24 Red Gold, A14E25 E-25 Red Maroon; A14E28 E-28 Turquoise; A14E30 E-30 Violet; A14E31 E-31 White, A14E32 E-23 Vellow Gold; A14E33 E-33 Yellow Ochre; A14E34 E-34 Special Violet, A14E35 E-35 Port Wine Red; A14E36 E-36 Deep Blue; A14E37 E-37 Special Deep Black, A14E38 E-38 Special Red Maroon; A14E39 E-39 HS Special Red; A14E41 E-41 Reduced Black, A14E42 E-42 Silk Silver Xirallic; A14E43 E-43 Silk Russet Xirallic; A14E45 E-45 Silk Blue Xirallic; A14E46 E-46 Silk Red Xirallic; A14E47 E-47 Silk Green Xirallic; A14E48 E-48 Silk Copper Xirallic; A14E45 IE-51 Red Yellow; A14E52 E-52 Topaz; A14E53 E-53 Org nic Orange, A14E59 E-59 Metallic Additive; A14E60 E-66 Medium Metallic Alluminium, A14E67 E-67 Coarse Metallic Alluminium; A14E68 E-68 Extra Fine Silver Metallic/Aluminium, A14E69 E-69 Fine Silver Metallic/Aluminium, A14E71 E-75 Coarse Metallic/Aluminium Metallic/Aluminium; A14E75 E-75 Coarse Silver Metallic/Aluminium, A14E74 E-74 Coarse Aluminium Metallic; A14E75 E-75 Extra Coarse Silver Metallic/Aluminium, A14E74 E-74 Coarse Aluminium Metallic; A14E75 E-75 Fine White Pearl; A14E87 E-87 Bright Russet Pearl; A14E80 E-80 Yellow Pearl, A14E89 E-89 Fine Yellow Gold Pearl; A14E83 E-83 Orange Pearl; A14E86 E-86 Copper Pearl, A14E87 E-78 White Sparkle Pearl; A14E80 E-80 Fine Green Pearl; A14E89 E-89 Blue Russet Pearl; A14E89 E-90 Red Blue Pearl; A14E91 E-91 Fine Blue Pearl; A14E92 E-92 Green Blue Pearl, A14E93 E-93 Fine Green Pearl; A14E85 E-85 Blue Green Pearl; A14E90 E-90 Red Blue Pearl; A14E91
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	Use according to manufacturer's directions.
nelevant identified uses	Automotive refinish.

Details of the supplier of the safety data sheet

Registered company name	anji Padu Niaga Manufacturing		
Address	No.32-1 Jalan Nova K, U5/K, Subang Bestari Shah Alam Selangor 40150 Malaysia		
Telephone	+60 17 6715 304		
Fax	lot Available		
Website	Not Available		
Email	tsmitz@gmail.com		

Emergency telephone number

Association / Org	ganisation	Not Available
Emergency	telephone numbers	013 488 7100
Other emergency	telephone numbers	012 318 2244

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

1

Poisons Schedule	\$5
Classification ^[1]	Flammable Liquid Category 2, Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Carcinogenicity Category 1A, 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 3, Chronic Aquatic Hazard Category 3

Legend: 1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Label elements GHS label elements

SIGNAL WORD DANGER

Hazard statement(s)

H225	Highly flammable liquid and vapour.	
H312	Harmful in contact with skin.	
H332	Harmful if inhaled.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H350	May cause cancer.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H412	Harmful to aquatic life with long lasting effects.	
AUH066	Repeated exposure may cause skin dryness and cracking	

Supplementary statement(s)

Not Applicable

CLP classification (additional)

Not Applicable

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P271	P271 Use only outdoors or in a well-ventilated area.	
P281 Use personal protective equipment as required.		

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/attention.	
P362	Take off contaminated clothing and wash before reuse.	
P363	Wash contaminated clothing before reuse.	
P370+P378	78 In case of fire: Use alcohol resistant foam or normal protein foam for extinction.	

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

Precautionary statement(s) Disposal

For Dispose of contents/container in accordance with local regulations.	P501	Dispose of contents/container in accordance with local regulations.
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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
123-86-4	30-60	n-butyl acetate
13463-67-7	10-<30	titanium dioxide
108-65-6	10-<30	propylene glycol monomethyl ether acetate, alpha-isomer
98-56-6	10-<30	4-chlorobenzotrifluoride
112926-00-8	10-<30	silica precipitated, crystalline free
1330-20-7	10-<30	xylene
763-69-9	<10	ethyl-3-ethoxypropionate
108-10-1	<10	methyl isobutyl ketone
64742-48-9.	<10	naphtha petroleum, heavy, hydrotreated

64742-95-6.	<10	naphtha petroleum, light aromatic solvent
1309-37-1	<10	ferric oxide
7782-42-5	<10	graphite
1333-86-4	<10	carbon black
7429-90-5	<10	aluminium powder coated
12001-26-2	<10	mica

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	 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.
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.

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. for simple esters:

BASIC TREATMENT

- BASIC TREATMENT
- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- Give activated charcoal.

ADVANCED TREATMENT

- -----
- + Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- > Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

EMERGENCY DEPARTMENT

- _____
- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consult a toxicologist as necessary
- BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

For acute or short term repeated exposures to xylene:

- Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g.

Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.

BIOLOGICAL EXPOSURE INDEX - BEI These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant	Index	Sa
Methylhippu-ric acids in urine	1.5 gm/gm creatinine	En
	2 mg/min	La

Sampling Time End of shift Last 4 hrs of shift Comments

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Water spray or fog.
- Alcohol stable foam.
- Dry chemical powder.

• Carbon dioxide. **Do not** use a water jet to fight fire.

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) hydrogen chloridę phosgenę hydrogen fluoride, other pyrolysis products typical of burning organic material

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

Precautions for safe handling 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 Safe handling <= 7 m/sec). Avoid splash filling. 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. Store in original containers in approved flame-proof area. No smoking, naked lights, heat or ignition sources Other information 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 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 Suitable container must have a screwed enclosure. ▶ For materials with a viscosity of at least 2680 cSt. (23 deg. C) For manufactured product having a viscosity of at least 250 cSt. ▶ Reacts with acids producing flammable / explosive hydrogen (H2) gas Storage incompatibility Avoid strong acids, bases. Avoid reaction with oxidising agents

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Not Available

Control parameters

EMERGENCY LIMITS

ethyl-3-ethoxypropionate

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
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	titanium dioxide	Titanium dioxide	10 mg/m3	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	silica precipitated, crystalline free	Silica - Amorphous: Precipitated silica / Silica - Amorphous: Silica gel / Precipitated silica / Silica gel	10 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	methyl isobutyl ketone	Methyl isobutyl ketone	205 mg/m3 / 50 ppm	307 mg/m3 / 75 ppm	Not Available	Not Available
Australia Exposure Standards	naphtha petroleum, heavy, hydrotreated	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	ferric oxide	Iron oxide fume (Fe2O3) (as Fe)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	graphite	Graphite (all forms except fibres) (respirable dust)(natural & synthetic)	3 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	carbon black	Carbon black	3 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	aluminium powder coated	Aluminium (metal dust) / Aluminium (welding fumes) (as Al) / Aluminium, pyro powders (as Al)	10 mg/m3 / 5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	mica	Mica	2.5 mg/m3	Not Available	Not Available	Not Available

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
n-butyl acetate	Butyl acetate, n-		Not Available	Not Available	Not Available
titanium dioxide	Titanium oxide; (Titanium dioxide)		10 mg/m3	10 mg/m3	10 mg/m3
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
silica precipitated, crystalline free	Silica gel, amorphous synthetic		6 mg/m3	6 mg/m3	6 mg/m3
xylene	Xylenes		Not Available	Not Available	Not Available
methyl isobutyl ketone	Methyl isobutyl ketone; (Hexone)		75 ppm	75 ppm	3000 ppm
naphtha petroleum, heavy, hydrotreated	Naphtha, hydrotreated heavy; (Isopar L-rev 2)		171 ppm	171 ppm	570 ppm
naphtha petroleum, light aromatic solvent	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)		3.1 ppm	34 ppm	410 ppm
ferric oxide	Iron oxide; (Ferric oxide)		15 mg/m3	360 mg/m3	2200 mg/m3
graphite	Graphite; (Mineral carbon)		2 mg/m3	2 mg/m3	95 mg/m3
carbon black	Carbon black		9 mg/m3	99 mg/m3	590 mg/m3
aluminium powder coated	Aluminum		3 mg/m3	33 mg/m3	200 mg/m3
mica	Mica; (mica silicates)		9 mg/m3	99 mg/m3	590 mg/m3
Ingredient	Original IDLH	Revised IDL	.H		
n-butyl acetate	10,000 ppm 1,700 [LEL] pp		pm		
titanium dioxide	N.E. mg/m3 / N.E. ppm 5,000 mg/m3				
propylene glycol monomethyl ether acetate, alpha-isomer	Not Available Not Available		•		
4-chlorobenzotrifluoride	Not Available Not Available		•		
silica precipitated, crystalline free	Not Available Not Available				
xylene	1,000 ppm 900 ppm				

Not Available

methyl isobutyl ketone	3,000 ppm	500 ppm
naphtha petroleum, heavy, hydrotreated	Not Available	Not Available
naphtha petroleum, light aromatic solvent	Not Available	Not Available
ferric oxide	N.E. mg/m3 / N.E. ppm	2,500 mg/m3
graphite	N.E. mg/m3 / N.E. ppm	1,250 mg/m3
carbon black	N.E. mg/m3 / N.E. ppm	1,750 mg/m3
aluminium powder coated	Not Available	Not Available
mica	N.E. mg/m3 / N.E. ppm	1,500 mg/m3

Exposure controls

Handsrifer protection 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. Suitability and durability of glove type is dependent on usage. Body protection See Other protection below Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shift and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent] Employees may and threes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1: or national equivalent] Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with location where direct exposure is likely. Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment in impervious containers at the point of exit for purposes or decontainnation or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination or disposal. The contents of such impervio		
Selection Selection global selection on use, should be created for each workplace or task. Skin protection Selection global selections on use, should be created for each workplace or task. Skin protection Selection for use, should be created for each workplace or task. Skin protection Selection bolow Hands/feet protection Near chemical protective gloves, e.g. PVC. Wear safety (botwear or safety gunboots, e.g. FbUO or polystynee-containing materials. Near safety for use matural nubber, buyl nubber, EPO Mor polystynee-containing materials. Hands/feet protection Do NOT use matural nubber, buyl nubber, EPO Mor polystynee-containing materials. Bedog protection Do NOT use matural nubber, buyl nubber, EPO Mor polystynee-containing materials. 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 croice. Subability and durability of glove type is dependent on usage. See Other protection below Final see exact break through time for substances has to be obtained from the engulated area. (ARNZS ISO GES2 2006 or national equivalent) Note or selection subvicing equivalent See Other protection below Conversite. Final see exact break through time for substances has to be provided with, and be required to wear, dean, full body protective dothing area (sean, full body protective dothing area (sean, full body protective dothing area (sean,		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
Eye and tace protection Charmical googles. Contract lenses may pose a special hazard; soft contract lenses may absorb and concentrate initiants. 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 Handsrifeet protection So NOT use natural nubber, buly inubbor, EPDM or polystyrene-containing materials. Handsrifeet protection Subard protection of suitable glows does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where Headsrifeet protection Body protection See Other protection below <th>Personal protection</th> <td></td>	Personal protection	
 Wear chemical protective gloves, e.g. PVC. Wear safety footwar or safety gumboots, e.g. Rubber For esters: Do NOT use natural rubber, butyl nubber, EPDM or polystyrene-containing materials. The selection of suitable gloves dees 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. Body protection See Other protection below See Other protection below Employees working with confirmed human carcinogens should be provided with, and be required to wear, dean, full body protective clothing (smocks, coverails, or long-sleeved shift and pants), shee covers and gloves prior to reliming the regulated area. [AS/NZS 150 6529:2006 or national equivalent] Employees working with confirmed human carcinogens should be provided with, and required to wear, dean, full body protective clothing (smocks, coverails, or long-sleeved shift and pants), shee covers and gloves prior to reliming the regulated area. [AS/NZS 150 6529:2006 or national equivalent] Employees working with confirmed human carcinogens should be provided with, and required to wear and use half-face filter-type respirators and gloves prior to reliming the regulated area. [AS/NZS 150 6529:2006 or national equivalent] Emergency deluge showers and eyewash fourtains, supplied with potable water, should be located near, within sight of, and on the same level with location where direct exposure is likely. Prior to each exit from an area containing confirmed human carcinogens, enployees should be required to remove and leave protective dolting and equipment in mpervious garments, including gloves, boots and continuous-ai supplied hood. Prior to each e	Eye and face protection	 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
Hands/feet protection • Wear safety footwear or safety gunboots, e.g. Pubber For esters: • Do NOT use natural nubber, butyl nubber, EPDM or polystyrene-containing materials. • Do NOT use natural nubber, butyl nubber, is the resistance of the glowe material can not be calculated in advance and has therefore to be checked prior the chemical is a preparation of several substances, the resistance of the glowe material can not be calculated in advance and has therefore to be checked prior Body protection See Other protection below Body protection See Other protection below Item safety and the same for substances has to be obtained from the manufacturer of the protective gloves and has the observed when making a final choice. Suitability and durability of glove type is dependent on usage. See Other protection below Item safety footwear or safety gunboots, e.g. public durability of glove type is dependent on usage. • Employees working with confirmed human carcinogens should be provided with, and her equired to wear, dean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [ASINZS ISO 6529:2006 or national equivalent] • Employees engaged in handing operations involving carniters or cartridges. A respirator affording higher levels of protection may be substituted. [ASINZS ISO 6529:2006 or national equivalent] • Emergency deluge showers and eyewash fourtians, supplied with potable water, should be required to reanow and use half-face filter-type respirators or national equival	Skin protection	See Hand protection below
 Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent] Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators w filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1: or national equivalent] Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with location where direct exposure is likely. Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to shower upon removal of the garments and hood. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood. PVC Apron. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. 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).	Hands/feet protection	 Wear safety footwear or safety gumboots, e.g. Rubber For esters: Do NOT use natural rubber, butyl rubber, EPDM or polystyrene-containing materials. 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.
 Coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent] Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators w filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 17: or national equivalent] Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with location where direct exposure is likely. Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes or decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood. Overalls. PVC prote. Evewash unit. 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 wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). Non sparking safety or conductive footwear should be considered. Conductive footwar describes a boot or shoe with a sole made from a conductive compound chemically bo	Body protection	See Other protection below
Thermal hazards Not Available	Other protection	 coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent] Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 171 or national equivalent] Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely. Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood. Overalls. PVC Apron. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. 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 wit
	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 *computer-generated* selection:

Colorspec No Mix E Basecoat

Material	СРІ
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	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*	-	-

NAT+NEOPR+NITRILE	с
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
TEFLON	С
VITON	С
VITON/BUTYL	С
##methyl isobutyl	ketone

up to 100 x ES	-	A-3	-
100+ x ES	-	Air-line**	-

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

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

* 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 $\ensuremath{\text{NOTE}}$: 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Coloured viscous flammable liquid with a strong solvent odour; not miscib	le with water.	
Physical state	Liquid	Relative density (Water = 1)	0.90-1.40
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)	95-165	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	18 (CC)	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)	Not Available
Vapour pressure (kPa)	8 @20C	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 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

Inhaled	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, and vertigo. 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. Mice exposed at up to 3000 ppm PGMEA 6 hr/day for a total of 9 days during an 11-day period showed no pronounced effect on the weights of liver, kidneys, heart, spleen, thymus or testes. Histopathological examination revealed degeneration of the olfactory epithelium in mice exposed at 300 ppm for the same time. Rats, similarly failed to show changes in internal organs and did not show olfactory epithelium degeneration until 3000 ppm. The no-effect level in rats was 1000 ppm. Human overexposure to MIBK vapour may produce a dose dependent effect, including weakness, loss of appetite, headache, burning sensation to the eyes, abdominal pain, nausea, vomiting, sore throat, sleeplessness, sleepiness, heartburn, intestinal pain, central nervous system depression, narcosis, weakness, headache and nausea. Toxic kidney and liver damage in rats, as well as memory and behaviour changes in the baboon have been reported. Headache, fatigue, tiredness, irritability and digestive disturbances (nausea, loss of appetite and bloating) are the most common symptoms of xylene overexposure. Injury to the heart, liver, kidneys and nervous system has also been noted amongst workers. Xylene is a central nervous system depressant The main effects of simple esters are irritation, stupor and insensibility. Headache, drowsiness, dizziness, coma and behavioural changes may occur. Prolonged exposure may cause headache, nausea and ultimately loss of consciousness. Accidental i		
Ingestion	Acute toxic responses to aluminium are confined to the more solu Exposure may cause salivation, and increases in blood cholester deposition of fat in the adrenal gland.		
Skin Contact	dermatitis which is characterised by redness, swelling and bliste Repeated exposure may cause skin cracking, flaking or drying for Though considered non-harmful, slight irritation may result from itching and skin reaction and inflammation.	following direct contact or after a delay of some time. Repeated exposure can cause contact ering. In solution of the analysis of the abrasive nature of the aluminium oxide particles. Thus it may cause frabbits for 2-weeks caused slight redness and very slight exfoliation.	
Eye	There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain. Undiluted propylene glycol monomethyl ether acetate (PGMEA) causes moderate discomfort, slight conjunctival redness and slight corneal injury in rabbits At concentrations of 100-200 ppm the vapour of MIBK may irritate the eyes and respiratory tract.		
Chronic	 Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. There is ample evidence that this material can be regarded as being able to cause cancer in humans based on experiments and other information. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Animal testing shows long term exposure to aluminium oxides may cause lung disease and cancer, depending on the size of the particle. The smaller the size, the greater the tendencies of causing harm. Exposure to large doses of aluminium has been connected with the degenerative brain disease Alzheimer's Disease. Repeated exposure to higher concentrations of propylene glycol monomethyl ether acetate (PGMEA) (1000 ppm and above) causes mild liver and kidney damage in animals. A minor component, 2-methoxy-1-propyl acetate (the beta-isomer) produced birth defects on inhalation exposure of pregnant rabbits at 545 ppm, but not at 145 or 36 ppm; maternal and embryo/foetal toxicity on inhalation exposure of pregnant rats at 2710 ppm, but not at 545 or 110 ppm; and no adverse effects on dermal exposure of pregnant rabbits at applied dosages of 1000 and 2000 mg/kg of body weight per day during the critical period or embryo/foetal development. In a further study, no developmental effects were seen to 1500 ppm and greater. Exposure of pregnant rabbits to the parent glycol ether, propylene glycol monomethyl ether which contained comparable amounts of the primary isomer, 2-methoxy-1-propanol, did not produce teratogenic effects at concentrations up to 3000 ppm. Chronic		
	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity.	pain and slight liver enlargement. wed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically	
Colorspec No Mix E	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause c TOXICITY	pain and slight liver enlargement. wed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically	
Colorspec No Mix E Basecoat	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause c	pain and slight liver enlargement. wed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically ancer because of its structural similarities with two known cancer causing agents.	
•	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause of TOXICITY Not Available TOXICITY	pain and slight liver enlargement. owed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically ancer because of its structural similarities with two known cancer causing agents. IRRITATION Not Available IRRITATION	
•	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause of TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >14080 mg/kg ^[1]	pain and slight liver enlargement. weed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically ancer because of its structural similarities with two known cancer causing agents. IRRITATION Not Available IRRITATION * [PPG]	
•	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause c TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >14080 mg/kg ^[1] Inhalation (rat) LC50: 2000 ppm/4Hg ^[2]	pain and slight liver enlargement. owed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically ancer because of its structural similarities with two known cancer causing agents. IRRITATION Not Available IRRITATION * [PPG] Eye (human): 300 mg	
Basecoat	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause of TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >14080 mg/kg ^[1] Inhalation (rat) LC50: 2000 ppm/4Hg ^[2] Inhalation (rat) LC50: 390 ppm/4h ^[2]	pain and slight liver enlargement. weed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically ancer because of its structural similarities with two known cancer causing agents. IRRITATION Not Available IRRITATION * [PPG] Eye (human): 300 mg Eye (rabbit): 20 mg (open)-SEVERE	
Basecoat	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause c TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >14080 mg/kg ^[1] Inhalation (rat) LC50: 2000 ppm/4Hg ^[2]	pain and slight liver enlargement. owed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically ancer because of its structural similarities with two known cancer causing agents. IRRITATION Not Available IRRITATION * [PPG] Eye (human): 300 mg	
Basecoat	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause of TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >14080 mg/kg ^[1] Inhalation (rat) LC50: 2000 ppm/4Hg ^[2] Inhalation (rat) LC50: 390 ppm/4Hg ^[2] Oral (rat) LD50: 10736 mg/kg ^[1]	Ippin and slight liver enlargement. weed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically ancer because of its structural similarities with two known cancer causing agents. IRRITATION Not Available IRRITATION * [PPG] Eye (human): 300 mg Eye (rabbit): 20 mg (open)-SEVERE Eye (rabbit): 20 mg/24h - moderate Skin (rabbit): 500 mg/24h-moderate	
Basecoat	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause of TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >14080 mg/kg ^[1] Inhalation (rat) LC50: 2000 ppm/4Hg ^[2] Inhalation (rat) LC50: 390 ppm/4Hg ^[2] Oral (rat) LD50: 10736 mg/kg ^[1] TOXICITY	pain and slight liver enlargement. weed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically ancer because of its structural similarities with two known cancer causing agents. IRRITATION Not Available IRRITATION * [PPG] Eye (numan): 300 mg Eye (rabbit): 20 mg (open)-SEVERE Eye (rabbit): 20 mg/24h - moderate Skin (rabbit): 500 mg/24h-moderate IRRITATION	
Basecoat	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause of TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >14080 mg/kg ^[1] Inhalation (rat) LC50: 2000 ppm/4Hg ^[2] Inhalation (rat) LC50: 390 ppm/4Hg ^[2] Oral (rat) LD50: 10736 mg/kg ^[1] TOXICITY Inhalation (rat) LC50: 2000 ppm/4Hg ^[2] Oral (rat) LD50: 10736 mg/kg ^[1]	Ippin and slight liver enlargement. weed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically ancer because of its structural similarities with two known cancer causing agents. IRRITATION Not Available IRRITATION * [PPG] Eye (human): 300 mg Eye (rabbit): 20 mg (open)-SEVERE Eye (rabbit): 20 mg/24h - moderate Skin (rabbit): 500 mg/24h-moderate	
n-butyl acetate	Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause of TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >14080 mg/kg ^[1] Inhalation (rat) LC50: 2000 ppm/4Hg ^[2] Inhalation (rat) LC50: 390 ppm/4Hg ^[2] Oral (rat) LD50: 10736 mg/kg ^[1] TOXICITY	pain and slight liver enlargement. owed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically ancer because of its structural similarities with two known cancer causing agents. IRRITATION Not Available IRRITATION * [PPG] Eye (numan): 300 mg Eye (rabbit): 20 mg (open)-SEVERE Eye (rabbit): 20 mg/24h - moderate Skin (rabbit): 500 mg/24h-moderate IRRITATION	

	Inhalation (rat) LC50: 3.43 mg/l4 h ^[1]	
	Inhalation (rat) LC50: 5.09 mg/l4 h ^[1]	
	Oral (rat) LD50: >2000 mg/kg ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
propylene glycol	dermal (rat) LD50: >2000 mg/kg ^[1]	* [CCINFO]
nonomethyl ether acetate, alpha-isomer	Inhalation (rat) LC50: 4345 ppm/6h ^[2]	Nil reported
	Oral (rat) LD50: >14.1 ml ^[1]	
	TOXICITY	IRRITATION
4-chlorobenzotrifluoride	Oral (rat) LD50: 13000 mg/kgd ^[2]	Nil reported
silica precipitated,	тохісіту	IRRITATION
crystalline free	Not Available	Eye (rabbit) : 8.3 mg/48h
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]	Eye (human): 200 ppm irritant
xylene	Inhalation (rat) LC50: 5000 ppm/4h ^[2]	Eye (rabbit): 5 mg/24h SEVERE
	Oral (rat) LD50: 4300 mg/kgt ^[2]	Eye (rabbit): 87 mg mild
		Skin (rabbit):500 mg/24h moderate
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 4075.5 mg/kg ^[1]	Eye (rabbit): 500mg/24h - mild
ethyl-3-ethoxypropionate	Inhalation (rat) LC50: 1250 ppm/4h ^[2]	Skin (rabbit):10 mg/24h open mild
	Oral (rat) LD50: 5139.5 mg/kg ^[1]	
	тохісіту	IRRITATION
	Dermal (rabbit) LD50: >16000 mg/kg ^[1]	Eye (human): 200 ppm/15m
methyl isobutyl ketone	Oral (rat) LD50: 2984 mg/kg ^[1]	Eye (rabbit): 40 mg - SEVERE
		Eye (rabbit): 500 mg/24h - mild
		Skin (rabbit): 500 mg/24h - mild
	TOXICITY	IRRITATION
naphtha petroleum, heavy,	Dermal (rabbit) LD50: >1900 mg/kg ^[1]	[CCINFO-Shell]
hydrotreated	Oral (rat) LD50: >4500 mg/kg ^[1]	[EXXON]
		None reported
	TOXICITY	IRRITATION
naphtha petroleum, light	Dermal (rabbit) LD50: >1900 mg/kg ^[1]	Nil reported
aromatic solvent	Inhalation (rat) LC50: >3670 ppm/8 h * ^[2]	
	Oral (rat) LD50: >4500 mg/kg ^[1]	
	TOXICITY	IRRITATION
ferric oxide	Oral (rat) LD50: >5000 mg/kg ^[1]	Not Available
	TOXICITY	IRRITATION
graphite	Inhalation (rat) LC50: >2 mg/L4 $h^{[1]}$	Not Available
	Oral (rat) LD50: >2000 mg/kg** ^[2]	
	TOXICITY	IRRITATION
carbon black	Dermal (rabbit) LD50: >3000 mg/kg ^[2]	Not Available
	Oral (rat) LD50: >8000 mg/kg ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
aluminium powder coated	Oral (rat) LD50: >2000 mg/kg ^[1]	Not Available
mica	TOXICITY	IRRITATION
mica	Not Available	Not Available

	/alue obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data racted from RTECS - Register of Toxic Effect of chemical Substances
Colorspec No Mix E Basecoat	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilla, have also been included in the criteria for diagnosis of RADS. No significant acute toxicological data identified in literature search. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. for propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnA); tipropylene glycol methyl ether (TPM). Testing of a wide variety of propylene glycol ethers. Insteing of a wide variety of propylene glycol ethers. In the ethylene series, such as adverse effects on reproductive organs, the developing embryo and fetus, blood (haemolytic effects), or thymus, are not seen with the commercial animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the facees and there is lifte accumulation in the body. Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans. SAS is not expected to be broken dow (metabolised) in
N-BUTYL ACETATE	reproductive effects were noted, and no gene alteration effects. There was also no evidence of cancer-causing potential. No data on its ability to cause birth defects was available. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.
TITANIUM DIOXIDE	Vesicles, scaling and thickening of the skin. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. It penetrated only the outermost layer of the skin, suggesting that healthy skin may be an effective barrier. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.
	* IUCLID
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE, ALPHA-ISOMER	for propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol methyl ether acetate (DPMA); tripropylene glycol methyl ether (TPM). Testing of a wide variety of propylene glycol ethers Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the ethylene series. The common toxicities associated with the lower molecular weight homologues of the ethylene series, such as adverse effects on reproductive organs, the developing embryo and fetus, blood (haemolytic effects), or thymus, are not seen with the commercial-grade propylene glycol ethers. In the ethylene series, metabolism of the terminal hydroxyl group produces an alkoxyacetic acid. A BASF report (in ECETOC) showed that inhalation exposure to 545 ppm PGMEA (beta isomer) was associated with a teratogenic response in rabbits; but exposure to 145 ppm and 36 ppm had no adverse effects. The beta isomer of PGMEA comprises only 10% of the commercial material, the remaining 90% is alpha isomer. Hazard appears low but emphasizes the need for care in handling this chemical. [I.C.I] A BASF report (in ECETOC) showed that inhalation exposure to 545 ppm PGMEA (beta isomer) was associated with a teratogenic response in rabbits; but exposure to 145 ppm and 36 ppm had no adverse effects. The beta isomer of PGMEA (beta isomer) was associated with a teratogenic response in rabbits; but exposure to 145 ppm and 36 ppm had no adverse effects. The beta isomer of PGMEA (beta isomer) was associated with a teratogenic response in rabbits; but exposure to 145 ppm and 36 ppm had no adverse effects. The beta isomer of PGMEA comprises only 10% of the commercial material, the remaining
	90% is alpha isomer. Hazard appears low but emphasizes the need for care in handling this chemical. [I.C.I] *Shin-Etsu SDS
4-CHLOROBENZOTRIFLUORIDE	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. Medium to long term exposure to chlorobenzotrifluoride may produce increase in weight of the liver, kidney, and thyroid gland at high doses. Only limited reproductive effects were noted, and no gene alteration effects. There was also no evidence of cancer-causing potential. No data on its ability to cause birth defects was available.
SILICA PRECIPITATED, CRYSTALLINE FREE	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. For silica amorphous: When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans. SAS is not expected to be broken down (metabolised) in mammals.

XYLE	XYLENE The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. 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				
ETHYL-3-ETHOXYPROPION/	ATE	The material may cause skin irritation after prolonged or repeated exposure and may produ- vesicles, scaling and thickening of the skin. * Union Carbide ** Endura Manufacturing	ce on contact skin redness, swelling, the production of		
METHYL ISOBUTYL KETC	DNE	Asthma-like symptoms may continue for months or even years after exposure to the material as reactive airways dysfunction syndrome (RADS) which can occur following exposure to th diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic ir symptoms within minutes to hours of a documented exposure to the irritant. A reversible airl severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal ly included in the criteria for diagnosis of RADS. The material may cause skin irritation after prolonged or repeated exposure and may produ vesicles, scaling and thickening of the skin. MIBK is primarily absorbed by the lungs in animals and humans but can be absorbed by the liver, lung, vitreous fluid, kidney and blood. Oral and respiratory routes of exposure are of mi MIBK does not cause genetic damage or harm the foetus or offspring, and has low toxicity	high levels of highly irritating compound. Key criteria for the ndividual, with abrupt onset of persistent asthma-like low pattern, on spirometry, with the presence of moderate to rmphocytic inflammation, without eosinophilia, have also been ce on contact skin redness, swelling, the production of skin, stomach and gut. If inhaled, it may be found in the brain, nimal effect with changes seen only in the liver and kidney.		
NAPHTHA PETROLEUM, HEA HYDROTREAT		for petroleum: This product contains benzene which is known to cause acute myeloid leukaemia and n-hexe are neuropathic. This product contains toluene. There are indications from animal studies that prolonged exp loss. This product contains ethyl benzene and naphthalene from which there is evidence of tumou Carcinogenicity: Inhalation exposure to mice causes liver tumours, which are not consider	posure to high concentrations of toluene may lead to hearing urs in rodents		
NAPHTHA PETROLEUM, LIG AROMATIC SOLVE		For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposure. Occur important routes of absorption although systemic intoxication from dermal absorption is not chemical prompting quick removal. Following oral administration of the chemical to rats, 62. indicating substantial absorption . 1,2,4-Trimethylbenzene is lipophilic and may accumulate For C9 aromatics (typically trimethylbenzenes - TMBs) Acute Toxicity Acute toxicity studies (oral, dermal and inhalation routes of exposure) have been conducted predominantly mixed C9 aromatic hydrocarbons (CAS RN 64742-95-6). Inhalation LC50's ra and 18,000 to 24,000 mg/m3 for 1,2,4 and 1,3,5-TMB, respectively. A rat oral LD50 reported the C9 aromatic naphtha is >4 ml/kg bw. These data indicate that C9 aromatic solvents sho acute toxicity studies established under OECD test guidelines. Inhalation (rat) TCLo: 1320 ppm/6h/90D-1* [Devoe]	likely to occur due to the dermal irritation caused by the 6% of the dose was recovered as urinary metabolites in fat and fatty tissues. in rats using various solvent products containing ange from 6,000 to 10,000 mg/m 3 for C9 aromatic naphtha for 1,2,4-TMB is 5 grams/kg bw and a rat dermal LD50 for		
FERRIC OXIDE as reactive diagnosis symptom severe br		Asthma-like symptoms may continue for months or even years after exposure to the material as reactive airways dysfunction syndrome (RADS) which can occur following exposure to h diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic ir symptoms within minutes to hours of a documented exposure to the irritant. A reversible airf severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal ly included in the criteria for diagnosis of RADS.	high levels of highly irritating compound. Key criteria for the dividual, with abrupt onset of persistent asthma-like low pattern, on spirometry, with the presence of moderate to		
GRAPHITE		Asthma-like symptoms may continue for months or even years after exposure to the material as reactive airways dysfunction syndrome (RADS) which can occur following exposure to h diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic ir symptoms within minutes to hours of a documented exposure to the irritant. A reversible airfl severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal ly included in the criteria for diagnosis of RADS. No significant acute toxicological data identified in literature search.	high levels of highly irritating compound. Key criteria for the dividual, with abrupt onset of persistent asthma-like low pattern, on spirometry, with the presence of moderate to		
		No significant acute toxicological data identified in literature search.			
CARBON BLA	СК	WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported			
ALUMINIUM POWDER COAT & M		No significant acute toxicological data identified in literature search.			
Acute Toxicity	~	Carcinogenicity	×		
Skin Irritation/Corrosion	~	Reproductivity	0		
Serious Eye Damage/Irritation	~	STOT - Single Exposure	*		
Respiratory or Skin sensitisation	\odot	STOT - Repeated Exposure	0		
Mutagenicity	\odot	Aspiration Hazard	0		
			 Data available but does not fill the criteria for classification Data required to make classification available Data Not Available to make classification 		

SECTION 12 ECOLOGICAL INFORMATION

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ferric oxide	EC50	72	Algae or other aquatic plants	18mg/L	2
graphite	LC50	96	Fish	>100mg/L	2
graphite	EC50	48	Crustacea	>=38.4- <=67.6mg/L	2
graphite	NOEC	672	Crustacea	>=0.58- <=10mg/L	2
graphite	EC50	72	Algae or other aquatic plants	19mg/L	2
graphite	EC50	72	Algae or other aquatic plants	7.2mg/L	2
carbon black	LC50	96	Fish	>100mg/L	2
carbon black	NOEC	720	Fish	17mg/L	2
carbon black	EC50	48	Crustacea	>100mg/L	2
carbon black	EC50	384	Crustacea	4.9mg/L	2
carbon black	EC50	96	Algae or other aquatic plants	95mg/L	2
aluminium powder coated	BCF	360	Algae or other aquatic plants	9mg/L	4
aluminium powder coated	EC50	120	Fish	0.000051mg/L	5
aluminium powder coated	LC50	96	Fish	0.078-0.108mg/L	2
aluminium powder coated	EC50	48	Crustacea	0.7364mg/L	2
aluminium powder coated	EC50	96	Algae or other aquatic plants	0.0054mg/L	2
aluminium powder coated	NOEC	72	Algae or other aquatic plants	>=0.004mg/L	2



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

Harmful 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.

For Propylene Glycol Ethers: log Kow's range from 0.309 for TPM to 1.523 for DPnB. Calculated BCFs range from 1.47 for DPnB to 3.16 for DPMA and TPM, indicating low bioaccumulation. Henry's Law Constants are low for all category members, ranging from 5.7 x 10-9 atm-m3/mole for TPM to 2.7 x10-9 atm-m3/mole for PnB.

Environmental Fate: Most are liquids at room temperature and all are water-soluble.

For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances' which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization. Terrestrial Fate: BTEX compounds have the potential to move through soil and contaminate ground water, and their vapors are highly flammable and explosive.

Ecotoxicity - Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus.

For Methyl Isobutyl Ketone (MIBK): Log Kow: 1.19-1.31; Koc: 19-106; Half-life (hr) air: 15 to 17; Half-life (hr) Surface Water: 15-33; Vapor Pressure: 14.5 mm Hg @ 20 C; Henry s Law Constant: 9.4 x 10-5 atm-m3/mol; E-05BOD 5: 0.12-2.14, 4.4%; COD: 2.16, 79%; ThOD: 2.72; BCF: 2-5.

Atmospheric Fate: MIBK has a short half-life in the atmosphere; however, it may contribute to the formation of photochemical smog. The main degradation pathway for MIBK in the atmosphere is via reactions hydroxyl radicals; the half-life for this reaction is estimated to be 16-17 hours.

For 4-chlorobenzotrifluoride (PCBTF): Environmental Fate:

Soil absorption is anticipated. This substance is relatively biodegradable and is not expected to bioaccumulate or bioconcentrate (BCF 120). It is insoluble in water; and water volatility may be high. PCBTF is phytotoxic towards com-root and potato disk cultures and inhibits root growth by disrupting the uptake of sulfate.

For Metal:

Atmospheric Fate - Metal-containing inorganic substances generally have negligible vapour pressure and are not expected to partition to air.

Environmental Fate: Environmental processes, such as oxidation, the presence of acids or bases and microbiological processes, may transform insoluble metals to more soluble ionic forms. Environmental processes may enhance bioavailability and may also be important in changing solubilities.

Aquatic/Terrestrial Fate: When released to dry soil, most metals will exhibit limited mobility and remain in the upper layer; some will leach locally into ground water and/ or surface water ecosystems when soaked by rain or melt ice. A metal ion is considered infinitely persistent because it cannot degrade further.

For Xylenes:

log Koc : 2.05-3.08; Koc : 25.4-204; Half-life (hr) air : 0.24-42; Half-life (hr) H2O surface water : 24-672; Half-life (hr) H2O ground : 336-8640; Half-life (hr) soil : 52-672; Henry's Pa m3 /mol : 637-879; Henry's atm m3 /mol - 7.68E-03; BOD 5 if unstated - 1.4,1%; COD - 2.56,13% ThOD - 3.125 : BCF : 23; log BCF : 1.17-2.41.

Environmental Fate: Most xylenes released to the environment will occur in the atmosphere and volatilisation is the dominant environmental fate process. Soil - Xylenes are expected to have moderate mobility in soil evaporating rapidly from soil surfaces. The extent of the degradation is expected to depend on its concentration, residence time in the soil, the nature of the soil, and whether resident microbial populations have been acclimated.

For Glycol Ethers:

Environmental Fate: Several glycol ethers have been shown to biodegrade however; biodegradation slows as molecular weight increases. No glycol ethers that have been tested demonstrate marked resistance to biodegradative processes. No glycol ethers that have been tested demonstrate marked resistance to biodegradative processes.

Atmospheric Fate: Upon release to the atmosphere by evaporation, high boiling glycol ethers are estimated to undergo photo-degradation (atmospheric half lives = 2.4-2.5 hr).

For Ketones: Ketones, unless they are alpha, beta-unsaturated ketones, can be considered as narcosis or baseline toxicity compounds.

Aquatic Fate: Hydrolysis of ketones in water is thermodynamically favourable only for low molecular weight ketones. Reactions with water are reversible with no permanent change in the structure of the ketone substrate. Ketones are stable to water under ambient environmental conditions.

For Aluminium and its Compunds and Salts

Environmental Fate - As an element, aluminium cannot be degraded in the environment, but may undergo various precipitation or ligand exchange reactions. Aluminium in compounds has only one oxidation state (+3), and would not undergo oxidation-reduction reactions under environmental conditions. Aluminium can be complexed by various ligands present in the environment (e.g., fulvic and humic acids). The solubility of aluminium in the environment will depend on the ligands present and the pH.

For Amorphous Silica: Amorphous silica is chemically and biologically inert. It is not biodegradable.

Aquatic Fate: Due to its insolubility in water there is a separation at every filtration and sedimentation process. On a global scale, the level of man-made synthetic amorphous silicas (SAS) represents up to 2.4% of the dissolved silica naturally present in the aquatic environment and untreated SAS have a relatively low water solubility and an extremely low vapour pressure. For Silica:

Environmental Fate: Most documentation on the fate of silica in the environment concerns dissolved silica, in the aquatic environment, regardless of origin, (man-made or natural), or structure, (crystalline or amorphous).

Terrestrial Fate: Silicon makes up 25.7% of the Earth �s crust, by weight, and is the second most abundant element, being exceeded only by oxygen. Silicon is not found free in nature, but occurs chiefly as the oxide and as silicates. Once released into the environment, no distinction can be made between the initial forms of silica. For n-Butyl Acetate:

Koc: ~200;

log Kow: 1.78; Half-life (hr) air: 144;

Half-life (hr) H2O surface water: 178 - 27156; Henry's atm: m3 /mol: 3.20E-04 BOD 5 if unstated: 0.15-1.02,7%;

COD: 78%; ThOD: 2.207; BCF : 4-14.

Environmental Fate: Terrestrial Fate - Butyl acetate is expected to have moderate mobility in soil. Volatilization of n-butyl acetate is expected from moist and dry soil surfaces. n-Butyl acetate may biodegrade in soil. DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
n-butyl acetate	LOW	LOW
titanium dioxide	HIGH	HIGH
propylene glycol monomethyl ether acetate, alpha-isomer	LOW	LOW
4-chlorobenzotrifluoride	HIGH	HIGH
silica precipitated, crystalline free	LOW	LOW
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethyl-3-ethoxypropionate	LOW	LOW
methyl isobutyl ketone	HIGH (Half-life = 7001 days)	LOW (Half-life = 1.9 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
n-butyl acetate	LOW (BCF = 14)
titanium dioxide	LOW (BCF = 10)
propylene glycol monomethyl ether acetate, alpha-isomer	LOW (LogKOW = 0.56)
4-chlorobenzotrifluoride	LOW (BCF = 202)
silica precipitated, crystalline free	LOW (LogKOW = 0.5294)
xylene	MEDIUM (BCF = 740)
ethyl-3-ethoxypropionate	LOW (LogKOW = 1.0809)
methyl isobutyl ketone	LOW (LogKOW = 1.31)

Mobility in soil

Ingredient	Mobility
n-butyl acetate	LOW (KOC = 20.86)
titanium dioxide	LOW (KOC = 23.74)
propylene glycol monomethyl ether acetate, alpha-isomer	HIGH (KOC = 1.838)
4-chlorobenzotrifluoride	LOW (KOC = 1912)
silica precipitated, crystalline free	LOW (KOC = 23.74)
ethyl-3-ethoxypropionate	LOW (KOC = 10)
methyl isobutyl ketone	LOW (KOC = 10.91)

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:
	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.
	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.
	A Hierarchy of Controls seems to be common - the user should investigate:
	Kerkel and a second to be common the body integrated integrated. Kerkel and a second to be common the body integrated integ
Product / Packaging	Reuse Reuse
disposal	Recycling
	 Disposal (if all else fails)
	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.
	b D NOT allow wash water from cleaning or process equipment to enter drains.
	It may be necessary to collect all wash water for treatment before disposal.
	 In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.
	 Where in doubt contact the responsible authority.
	 Where in obtain contact the responsible authomy. Recycle wherever possible.
	 Recycle wine even 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

Labels Required



•3YE

HAZCHEM

Marine Pollutant

Land transport (ADG)

UN number	1263	
Packing group	II Contraction of the second	
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)	
Environmental hazard	Not Applicable	
Transport hazard class(es)	Class 3 Subrisk Not Applicable	
Special precautions for user	Special provisions 163 367 Limited quantity 5 L	

Air transport (ICAO-IATA / DGR)

	-	
UN number	1263	
Packing group	Ш	
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
Environmental hazard	Not Applicable	
Transport hazard class(es)	ICAO/IATA Class 3 ICAO / IATA Subrisk Not Applicable ERG Code 3L	
Special precautions for user	Special provisions	A3 A72 A192
	Cargo Only Packing Instructions	364
	Cargo Only Maximum Qty / Pack	60 L
	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	
Packing group	II Contraction of the second	
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)	
Environmental hazard	Not Applicable	
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable	
Special precautions for user	EMS NumberF-E, S-ESpecial provisions163 367Limited Quantities5 L	

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable Page 16 of 17

	IS FOUND ON THE FOLLOWING REGULATORY LIS	
Australia Exposure Standards Australia Hazardous Substances	Information System - Consolidated Lists	Australia Inventory of Chemical Substances (AICS)
TTANIUM DIOXIDE(13463-67-	7) IS FOUND ON THE FOLLOWING REGULATORY L	ISTS
Australia Exposure Standards Australia Inventory of Chemical S	iubstances (AICS)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
PROPYLENE GLYCOL MONO	METHYL ETHER ACETATE, ALPHA-ISOMER(108-65-	6) IS FOUND ON THE FOLLOWING REGULATORY LISTS
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances	Information System - Consolidated Lists	
-CHLOROBENZOTRIFLUOR Australia Inventory of Chemical S	IDE(98-56-6) IS FOUND ON THE FOLLOWING REGU	ILATORY LISTS
	TALLINE FREE(112926-00-8) IS FOUND ON THE FOL	I OWING REGULATORY LISTS
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)
	Information System - Consolidated Lists	
YLENE(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
THYL-3-ETHOXYPROPIONA	FE(763-69-9) IS FOUND ON THE FOLLOWING REGU	LATORY LISTS
Australia Inventory of Chemical S	substances (AICS)	
IETHYL ISOBUTYL KETONE	(108-10-1) IS FOUND ON THE FOLLOWING REGULA	NTORY 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
IAPHTHA PETROLEUM, HEA	VY, HYDROTREATED(64742-48-9.) IS FOUND ON TH	E 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
IAPHTHA PETROLEUM, LIGH	IT 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)
ERRIC OXIDE(1309-37-1) 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
Australia Exposure Standards	ND ON THE FOLLOWING REGULATORY LISTS	Australia Inventory of Chemical Substances (AICS)
	Information System - Consolidated Lists	Australia inventory of onemical outstances (Aloo)
Australia Exposure Standards	S FOUND ON THE FOLLOWING REGULATORY LIST	Australia Inventory of Chemical Substances (AICS)
	Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
LUMINIUM POWDER COATI	ED(7429-90-5) IS FOUND ON THE FOLLOWING REG	ULATORY LISTS
Australia Exposure Standards Australia Hazardous Substances	Information System - Consolidated Lists	Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
/ICA(12001-26-2) IS FOUND (ON THE FOLLOWING REGULATORY LISTS	Monographs
Australia Exposure Standards Australia Hazardous Substances	Information System - Consolidated Lists	Australia Inventory of Chemical Substances (AICS)
National Inventory	Status	
Australia - AICS	Y	
Canada - DSL	Y	
Canada - NDSL	N (propylene glycol monomethyl ether acetate, alpha-ise	omer; aluminium powder coated; xylene; n-butyl acetate; naphtha petroleum, light aromatic solvent; e; naphtha petroleum, heavy, hydrotreated; ferric oxide; carbon black; mica; silica precipitated, crystallir
China - IECSC	Y	
Europe - EINEC / ELINCS /	N (mica; silica precipitated, crystalline free)	
NLP		

New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	N (mica; silica precipitated, crystalline free)
Legend:	Y = All ingredients are on the inventory 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
titanium dioxide	100292-32-8, 101239-53-6, 116788-85-3, 12000-59-8, 12188-41-9, 12701-76-7, 12767-65-6, 12789-63-8, 1309-63-3, 1317-70-0, 1317-80-2, 1344-29-2, 13463-67-7, 185323-71-1, 185828-91-5, 188357-76-8, 188357-79-1, 195740-11-5, 221548-98-7, 224963-00-2, 246178-32-5, 252962-41-7, 37230-92-5, 37230-94-7, 37230-95-8, 37230-96-9, 39320-58-6, 39360-64-0, 39379-02-7, 416845-43-7, 494848-07-6, 494848-23-6, 494851-77-3, 494851-98-8, 55068-84-3, 55068-85-4, 552316-51-5, 62338-64-1, 767341-00-4, 97929-50-5, 98084-96-9
propylene glycol monomethyl ether acetate, alpha-isomer	108-65-6, 142300-82-1, 84540-57-8
naphtha petroleum, heavy, hydrotreated	101795-02-2., 64742-48-9.
naphtha petroleum, light aromatic solvent	25550-14-5., 64742-95-6.
mica	12001-26-2, 129899-84-9, 61076-94-6

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.

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 I OD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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