

RLA Polymers Pty Ltd

Chemwatch: 72-8914 Version No: 2.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 05/01/2017 Print Date: **18/01/2017** S.GHS.AUS.EN

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

Product Identifier

Product name	Vinidex Type G Solvent Cement	
Synonyms	Not Available	
Proper shipping name ADHESIVES containing flammable liquid		
Other means of identification	Not Available	

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

Relevant identified uses

The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.

Type G adhesive for bonding large diameter/bore PVC-U pipes with parallel/no or low interference fit joints.

Details of the supplier of the safety data sheet

Registered company name	RLA Polymers Pty Ltd	
Address	215 Colchester Road Kilsyth VIC 3137 Australia	
Telephone	of 3 9728 1644	
Fax	+61 3 9728 6009	
Website	www.rlagroup.com.au	
Email	Email sales@rlagroup.com.au	

Emergency telephone number

Association / Organisation	Not Available	
Emergency telephone numbers	+61 3 9728 1644 (RLA Group Technical Manager) business hours	
Other emergency telephone numbers	132766 (Security Monitoring Service)	

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Poisons Schedule	S5
Classification [1] Flammable Liquid Category 2, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Reproductive Toxicit Category 1B, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Specific target organ toxicity - single exposure Category 3 (narcotic effects), Aspiration 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



GHS label elements

SIGNAL	WORD	DANGER
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Hazard	statement(s)
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4-7	
H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.

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H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H304	H304 May be fatal if swallowed and enters airways.	
AUH066	AUH066 Repeated exposure may cause skin dryness and cracking	
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	P281 Use personal protective equipment as required.	

Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P308+P313	08+P313 IF exposed or concerned: Get medical advice/attention.	
P331	P331 Do NOT induce vomiting.	
P362 Take off contaminated clothing and wash before reuse.		

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

CAS No	%[weight]	Name
78-93-3	10-30	methyl ethyl ketone
108-94-1	10-30	<u>cyclohexanone</u>
109-99-9	10-30	<u>tetrahydrofuran</u>
9003-22-9	10-30	vinyl chloride/ vinyl acetate copolymer
9002-86-2	1-10	polyvinyl chloride
872-50-4	1-10	N-methyl-2-pyrrolidone

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 furnes 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. 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

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.

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Treat symptomatically.

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) , hydrogen chloride , phosgene , nitrogen oxides (NOx) , other pyrolysis products typical of burning organic material. WARNING: Long standing in contact with air and light may result in the formation of potentially explosive peroxides.
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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 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

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. 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	 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

	▶ Packing as supplied by manufacturer.
	▶ Plastic containers may only be used if approved for flammable liquid.
Suitable container	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

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- 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.

Storage incompatibility

- Avoid strong acids, bases.
- Avoid reaction with oxidising agents

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	methyl ethyl ketone	Methyl ethyl ketone (MEK)	445 mg/m3 / 150 ppm	890 mg/m3 / 300 ppm	Not Available	Not Available
Australia Exposure Standards	cyclohexanone	Cyclohexanone	100 mg/m3 / 25 ppm	Not Available	Not Available	Sk
Australia Exposure Standards	tetrahydrofuran	Tetrahydrofuran	295 mg/m3 / 100 ppm	Not Available	Not Available	Sk
Australia Exposure Standards	N-methyl-2-pyrrolidone	1-Methyl-2-pyrrolidone	103 mg/m3 / 25 ppm	309 mg/m3 / 75 ppm	Not Available	Sk

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
methyl ethyl ketone	Butanone, 2-; (Methyl ethyl ketone; MEK)	Not Available	Not Available	Not Available
cyclohexanone	Cyclohexanone; (Ketohexamethylene)	60 ppm	830 ppm	5000 ppm
tetrahydrofuran	Tetrahydrofuran	Not Available	Not Available	Not Available
vinyl chloride/ vinyl acetate copolymer	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with chloroethylene)	120 mg/m3	1,300 mg/m3	7,900 mg/m3
polyvinyl chloride	Polyvinyl chloride	3 mg/m3	33 mg/m3	200 mg/m3
N-methyl-2-pyrrolidone	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	30 ppm	32 ppm	190 ppm

Ingredient	Original IDLH	Revised IDLH
methyl ethyl ketone	3,000 ppm	3,000 [Unch] ppm
cyclohexanone	5,000 ppm	700 ppm
tetrahydrofuran	20,000 [LEL] ppm	2,000 [LEL] ppm
vinyl chloride/ vinyl acetate copolymer	Not Available	Not Available
polyvinyl chloride	Not Available	Not Available
N-methyl-2-pyrrolidone	Not Available	Not Available

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

Hands/feet protection

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

Body protection

See Other protection below

PVC Apron. PVC protective suit may be required if exposure severe.

Eyewash unit.

Overalls

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

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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:

Type G Solvent Cement

Material	СРІ
BUTYL	С
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
SARANEX-23	С
TEFLON	С
VITON/CHLOROBUTYL	С
VITON/NEOPRENE	С

^{*} CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

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

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Type AK Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	AK-AUS / Class	-	AK-PAPR-AUS / Class 1
up to 25 x ES	Air-line*	AK-2	AK-PAPR-2
up to 50 x ES	-	AK-3	-
50+ x ES	-	Air-line**	-

^{^ -} Full-face

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Viscous clear highly flammable gel with characteristic odour of MEK; not miscible with water.		
Physical state	Gel	Relative density (Water = 1)	0.96-1
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	321
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)	79-81	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-17	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	11.8	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	2	Volatile Component (%vol)	100
Vapour pressure (kPa)	950	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	2.4	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.

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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	۸n	toxicological	affacte
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The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage Inhalation hazard is increased at higher temperatures.	e.		
Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with hea slowing of reflexes, fatigue and inco-ordination.	adache and dizziness,		
Ingestion Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result Accidental ingestion of the material may be damaging to the health of the individual.	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Accidental ingestion of the material may be damaging to the health of the individual.		
dermatitis which is characterised by redness, swelling and blistering. The material may accentuate any pre-existing dermatitis condition Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Open cuts, abraded or irritated skin should not be exposed to this material	The material may accentuate any pre-existing dermatitis condition Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. 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, may produce systemic injury with harmful effects. Examine the skin prior to the use		
Eye There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation may be expected with pain.	on. Severe inflammation		
Chronic Chronic Chronic Chronic Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic probability of the 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 of the chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]			
Type G Solvent Cement Type G Solvent Cement			
Not Available Not Available			
TOXICITY IRRITATION			
Dermal (rabbit) LD50: >8100 mg/kg ^[1] Eye (human): 350 ppm -irritant			
methyl ethyl ketone Inhalation (rat) LC50: 23.5 mg/L/8hr ^[2] Eye (rabbit): 80 mg - irritant			
Inhalation (rat) LC50: 50.1 mg/L/8 hr ^[2] Skin (rabbit): 402 mg/24 hr - mild			
Oral (rat) LD50: 3474.9 mg/kg ^[1] Skin (rabbit):13.78mg/24 hr open			
TOXICITY IRRITATION			
Dermal (rabbit) LD50: 947.8 mg/kg ^[2] Eye (human): 75 ppm			
cyclohexanone Inhalation (rat) LC50: 8000 ppm/4hr ^[2] Eye (rabbit): 0.25 mg/24h SEVERE			
Oral (rat) LD50: 1535 mg/kg ^[2] Eye (rabbit): 4.74 mg SEVERE			
Skin (rabbit): 500 mg(open) mild			
TOXICITY IRRITATION			
dermal (rat) LD50: >2000 mg/kg ^[1] Not Available			
Inhalation (rat) LC50: >14.7 mg/l6 hr ^[1]			
Inhalation (rat) I C50: 2100 npm/3hr[2]			
tetrahydrofuran Inhalation (rat) LC50: 2100 ppm/3hr ^[2]			
Inhalation (rat) LC50: 72 mg/L/2hr ^[2]			
Oral (rat) LD50: <891 mg/kg> ^[1]			
Oral (ray) Ebsu. Cost myrkys			
vinyl chloride/ vinyl acetate TOXICITY IRRITATION			
copolymer Not Available Not Available			
TOXICITY IRRITATION			
polyvinyl chloride Not Available Not Available			
TOXICITY IRRITATION			
dermal (rat) LD50: >5000 mg/kg ^[1] Eye (rabbit): 100 mg - moderate			
N-methyl-2-pyrrolidone Inhalation (rat) LC50: 8300 ppm/4hr ^[2]			
Oral (rat) LD50: 3914 mg/kg ^[2]			

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Vinidex Type G Solvent Cement

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Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

METHYL ETHYL KETONE	Methyl ethyl ketone is considered to have a low order of toxicity; however methyl ethyl ketone is often used in combination with other solvents and the toxic effects of the mix may be greater than either solvent alone. Combinations of n-hexane with methyl ethyl ketone and also methyl n-butyl ketone with methyl ethyl ketone show increase in peripheral neuropathy, a progressive disorder of nerves of extremities. Combinations with chloroform also show increase in toxicity			
CYCLOHEXANONE	Cyclohexanone irritates the eye and the skin. Signs of CNS demottling of the lungs and degenerative changes in the liver and		•	
TETRAHYDROFURAN	The material may cause severe 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. Repeated exposures may produce severe ulceration. Oral (human) LDLo: 50 mg/kg* [CCINFO]* Nil reported			
VINYL CHLORIDE/ VINYL ACETATE COPOLYMER	Tumours at site of applications. IARC Cancer Review: Anima	l Limited Evidence. Equivocal tumou	urigen by RTECS criteria.	
N-METHYL- 2-PYRROLIDONE	by hydroxylation to polar compounds, which are excreted via u	for N-methyl-2-pyrrolidone (NMP): Acute toxicity: In rats, NMP is absorbed rapidly after inhalation, oral, and dermal administration, distributed throughout the organism, and eliminated mainly by hydroxylation to polar compounds, which are excreted via urine. About 80% of the administered dose is excreted as NMP and NMP metabolites within 24 h. A probably dose-dependent yellow coloration of the urine in rodents is observed. The major metabolite is 5-hydroxy- <i>N</i> -methyl-2-pyrrolidone.		
METHYL ETHYL KETONE & TETRAHYDROFURAN & POLYVINYL CHLORIDE & N-METHYL- 2-PYRROLIDONE	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.			
METHYL ETHYL KETONE & CYCLOHEXANONE	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.			
CYCLOHEXANONE & TETRAHYDROFURAN	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.			
CYCLOHEXANONE & POLYVINYL CHLORIDE	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.			
VINYL CHLORIDE/ VINYL ACETATE COPOLYMER & POLYVINYL CHLORIDE	No significant acute toxicological data identified in literature search.			
Acute Toxicity	▽	Carcinogenicity	0	
Skin Irritation/Corrosion	~	Reproductivity	~	
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓	
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0	

Aspiration Hazard Legend:

★ - 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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Mutagenicity

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
methyl ethyl ketone	LC50	96	Fish	228.130mg/L	3
methyl ethyl ketone	EC50	48	Crustacea	308mg/L	2
methyl ethyl ketone	EC50	96	Algae or other aquatic plants	>500mg/L	4
methyl ethyl ketone	EC50	384	Crustacea	52.575mg/L	3
methyl ethyl ketone	NOEC	48	Crustacea	68mg/L	2
cyclohexanone	LC50	96	Fish	71.940mg/L	3
cyclohexanone	EC50	72	Algae or other aquatic plants	32.9mg/L	5
cyclohexanone	EC10	72	Algae or other aquatic plants	3.56mg/L	4
cyclohexanone	NOEC	24	Fish	ca.5mg/L	1
tetrahydrofuran	LC50	96	Fish	72.742mg/L	3
tetrahydrofuran	EC50	96	Algae or other aquatic plants	310.515mg/L	3
tetrahydrofuran	EC50	384	Crustacea	17.029mg/L	3
tetrahydrofuran	NOEC	24	Fish	>=5mg/L	1
polyvinyl chloride	LC50	96	Fish	2.315mg/L	3
polyvinyl chloride	EC50	96	Algae or other aquatic plants	25.141mg/L	3
N-methyl-2-pyrrolidone	LC50	96	Fish	464mg/L	1
N-methyl-2-pyrrolidone	EC50	48	Crustacea	ca.4897mg/L	1

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N-methyl-2-pyrrolidone	EC50	72	Algae or other aquatic plants	>500mg/L	1
N-methyl-2-pyrrolidone	EC50	384	Crustacea	133.481mg/L	3
N-methyl-2-pyrrolidone	NOEC	504	Crustacea	12.5mg/L	2
Legend:	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				

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
methyl ethyl ketone	LOW (Half-life = 14 days)	LOW (Half-life = 26.75 days)
cyclohexanone	LOW	LOW
tetrahydrofuran	LOW	LOW
polyvinyl chloride	LOW	LOW
N-methyl-2-pyrrolidone	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
methyl ethyl ketone	LOW (LogKOW = 0.29)
cyclohexanone	LOW (BCF = 2.45)
tetrahydrofuran	LOW (LogKOW = 0.46)
polyvinyl chloride	LOW (LogKOW = 1.6233)
N-methyl-2-pyrrolidone	LOW (BCF = 0.16)

Mobility in soil

Ingredient	Mobility
methyl ethyl ketone	MEDIUM (KOC = 3.827)
cyclohexanone	LOW (KOC = 15.15)
tetrahydrofuran	LOW (KOC = 4.881)
polyvinyl chloride	LOW (KOC = 23.74)
N-methyl-2-pyrrolidone	LOW (KOC = 20.94)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Product / Packaging
 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
 - disposal Consult manufaction 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

Packing group

Labels Required

Labels nequired		
Marine Pollutant	NO	
HAZCHEM	∙3YE	
Land transport (ADG)		
UN number	1133	
UN proper shipping name	ADHESIVES containing flammable liquid	
Transport hazard class(es)	Class 3 Subrisk Not Applicable	

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Environmental hazard	Not Applicable			
Special precautions for user	Special provisions	Not Applicable		
	Limited quantity	5 L		
Air transport (ICAO-IATA / D	GR)			
UN number	1133			
UN proper shipping name	Adhesives containing fla	ammable liquid		
	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3L		
Packing group				
Environmental hazard	Not Applicable			
Environmental nazara				
	Special provisions		A3	
	Cargo Only Packing I		364	
	Cargo Only Maximum		60 L 353	
Special precautions for user	Passenger and Cargo		5L	
	Passenger and Cargo	·		
		Limited Quantity Packing Instructions	Y341	
	Passenger and Cargo	Limited Maximum Qty / Pack	1L	
Sea transport (IMDG-Code	/ GGVSee)			
UN number	1133			
UN proper shipping name	ADHESIVES containing	flammable liquid		
	IMDG Class 3			
Transport hazard class(es)		ot Applicable		
Packing group	11			
Environmental hazard	Not Applicable			
	EMS Number	F-E, S-D		
Special precautions for user	Special provisions Not Applicable			
	Limited Quantities	5 L		
T		DDOL and the IDO and		
Transport in bulk accordin Not Applicable	ig to Allilex II of MAI	APOL and the IBC code		
Not ripplicable				
SECTION 15 REGULATO	RY INFORMATION			
Safety, health and environ	mental regulations	legislation specific for the s	substance or mixture	
METHYL ETHYL KETONE(78-9	93-3) IS FOUND ON THE	FOLLOWING REGULATORY LISTS		
Australia Exposure Standards	Information Contain Cons	alidated Lieta	Australia Inventory of Chemical Substances (AICS)	
Australia Hazardous Substances I	information System - Consc	DIIDATED LISTS		
CYCLOHEXANONE(108-94-1)	IS FOUND ON THE FOLL	LOWING REGULATORY LISTS		
Australia Exposure Standards Australia Hazardous Substances	Information System - Consc	olidated Lists	Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	
Australia Flazardous Gubstarioes I	miorriation bystem - const	bildated Lists	Monographs	
TETRAHYDROFURAN(109-99-	9) IS FOUND ON THE FO	OLLOWING REGULATORY LISTS		
Australia Exposure Standards	•		Australia Inventory of Chemical Substances (AICS)	
Australia Hazardous Substances I	Information System - Conso	olidated Lists		
VINYL CHLORIDE/ VINYL ACET	TATE COPOLYMER(9003	3-22-9) IS FOUND ON THE FOLLOW	ING REGULATORY LISTS	
Australia Inventory of Chemical Su	ubstances (AICS)		International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	
			Monographs	
		FOLLOWING REGULATORY LISTS		
Australia Inventory of Chemical Su	ubstances (AICS)		International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	
	070 F0 4) IC FOLIND ON	THE FOLLOWING REGULATORY !!		
N-METHVI -2-DVDDOL IDONE/		THE TOLLOWING REGULATORY L	1010	
N-METHYL-2-PYRROLIDONE(Australia Exposure Standards	872-30-4) IS FOUND ON			
N-METHYL-2-PYRROLIDONE(i Australia Exposure Standards Australia Hazardous Substances	·		Australia Inventory of Chemical Substances (AICS)	
Australia Exposure Standards	·			

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Vinidex Type G Solvent Cement

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Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (cyclohexanone; polyvinyl chloride; vinyl chloride/ vinyl acetate copolymer; N-methyl-2-pyrrolidone; tetrahydrofuran; methyl ethyl ketone)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	N (polyvinyl chloride; vinyl chloride/ vinyl acetate copolymer)
Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
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
N-methyl-2-pyrrolidone	872-50-4, 26138-58-9

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 LOD: Limit Of Detection

OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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