

RLA Spray Contact Adhesive RLA Polymers Pty Ltd

Chemwatch: 5447-59

Version No: 2.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 3

Issue Date: **15/01/2021** Print Date: **15/01/2021** S.GHS.AUS.EN

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

Product Identifier

Product name	RLA Spray Contact Adhesive	
Chemical Name	Not Applicable	
Synonyms	Not Available	
Proper shipping name	ADHESIVES containing flammable liquid	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

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

Relevant identified uses	Sprayable solvent based contact adhesive. Use according to manufacturer's directions. 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.
Relevant identified uses	Use according to manufacturer's directions.

Details of the supplier of the safety data sheet

Registered company name	RLA Polymers Pty Ltd	
Address	5 Colchester Road Kilsyth VIC 3137 Australia	
Telephone	9728 1644	
Fax	61 3 9728 6009	
Website	www.rlagroup.com.au	
Email	sales@rlagroup.com.au	

Emergency telephone number

Association / Organisation	RLA Polymers Pty Ltd	
Emergency telephone numbers	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

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

Poisons Schedule	\$5	
Classification ^[1]	Flammable Liquid Category 2, Acute Toxicity (Oral) Category 4, Aspiration Hazard Category 1, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Reproductive Toxicity Category 2, Specific target organ toxicity - repeated exposure Category 2, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Label elements		
Hazard pictogram(s)		
Signal word	Danger	
Hazard statement(s)		
H225	Highly flammable liquid and vapour.	

H302	rmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H315	auses skin irritation.	
H319	uses serious eye irritation.	
H336	lay cause drowsiness or dizziness.	
H361d	Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	

Precautionary statement(s) Prevention

P201	Detain special instructions before use.	
P210	P210 Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P260	Do not breathe mist/vapours/spray.	
P271	Use in a well-ventilated area.	

Precautionary statement(s) Response

P301+P310	SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P308+P313	exposed or concerned: Get medical advice/attention.	
P321	Specific treatment (see advice on this label).	
P331	Do NOT induce vomiting.	

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 to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
64742-49-0.	10-30	naphtha petroleum, light, hydrotreated
108-88-3	10-30	toluene
67-64-1	10-30	acetone
107-83-5	10-30	2-methylpentane

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.
Ingestion	 If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. 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

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 acute or short term repeated exposures to acetone:

- · Symptoms of acetone exposure approximate ethanol intoxication.
- About 20% is expired by the lungs and the rest is metabolised. Alveolar air half-life is about 4 hours following two hour inhalation at levels near the Exposure Standard; in overdose, saturable metabolism and limited clearance, prolong the elimination half-life to 25-30 hours.
- There are no known antidotes and treatment should involve the usual methods of decontamination followed by supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

Management:

Measurement of serum and urine acetone concentrations may be useful to monitor the severity of ingestion or inhalation.

Inhalation Management:

- Maintain a clear airway, give humidified oxygen and ventilate if necessary.
- If respiratory irritation occurs, assess respiratory function and, if necessary, perform chest X-rays to check for chemical pneumonitis.
- Consider the use of steroids to reduce the inflammatory response.
- Treat pulmonary oedema with PEEP or CPAP ventilation

Dermal Management:

- Remove any remaining contaminated clothing, place in double sealed, clear bags, label and store in secure area away from patients and staff.
- Irrigate with copious amounts of water.
- An emollient may be required.
- Eye Management:
- Irrigate thoroughly with running water or saline for 15 minutes.

Stain with fluorescein and refer to an ophthalmologist if there is any uptake of the stain. Oral Management:

No GASTRIC LAVAGE OR EMETIC

Encourage oral fluids.

Systemic Management:

- Monitor blood glucose and arterial pH.
- Ventilate if respiratory depression occurs
- If patient unconscious, monitor renal function.
- Symptomatic and supportive care

The Chemical Incident Management Handbook:

Guy's and St. Thomas' Hospital Trust, 2000

BIOLOGICAL EXPOSURE INDEX

ese represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):				
Determinant	Sampling Time	Index	Comments	
Acetone in urine	End of shift	50 mg/L	NS	

NS: Non-specific determinant; also observed after exposure to other material

- Following acute or short term repeated exposures to toluene:
- Toluene is absorbed across the alveolar barrier, the blood/air mixture being 11.2/15.6 (at 37 degrees C.) The concentration of toluene, in expired breath, is of the order of 18 ppm following sustained exposure to 100 ppm. The tissue/blood proportion is 1/3 except in adipose where the proportion is 8/10.

• Metabolism by microsomal mono-oxygenation, results in the production of hippuric acid. This may be detected in the urine in amounts between 0.5 and 2.5 g/24 hr which represents, on average 0.8 gm/gm of creatinine. The biological half-life of hippuric acid is in the order of 1-2 hours.

- Primary threat to life from ingestion and/or inhalation is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (eg 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 damage 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 (adrenaline) 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.
- Lavage is indicated in patients who require decontamination; ensure use

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
o-Cresol in urine
Hippuric acid in urine
Toluene in blood

Sampling Time End of shift End of shift Prior to last shift of workweek Comments в B. NS

NS: Non-specific determinant: also observed after exposure to other material

Index

0.5 ma/L

0.05 mg/L

1.6 g/g creatinine

B: Background levels occur in specimens collected from subjects NOT exposed

SECTION 5 Firefighting measures

Extinguishing media

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 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. **Fire Fighting** Wear breathing apparatus plus protective gloves in the event of a fire.

Prevent, by any means available, spillage from entering drains or water course.

Fire/Explosion Hazard	 Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.
HAZCHEM	•3YE

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

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

Precautions for safe handling	
Safe handling	 The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid. Contains low boiling substance: Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately. Check for bulging containers. Vent periodically Always release caps or seals slowly to ensure slow dissipation of vapours Do NOT allow clothing wet with material to stay in contact with skin Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). Avoid splash filling. Avoid splash filling. 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

Suitable container	 Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks. For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure. 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	 For alkyl aromatics: The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring. Following reaction with oxygen and under the influence of sunlight, a hydroperoxide at the alpha-position to the aromatic ring, is the primary oxidation product formed (provided a hydrogen atom is initially available at this position) - this product is often short-lived but may be stable dependent on the nature of the aromatic substitution; a secondary C-H bond is more easily attacked than a primary C-H bond whilst a tertiary C-H bond is even more susceptible to attack by oxygen Monoalkylbenzenes may subsequently form monocarboxylic acids; alkyl naphthalenes mainly produce the corresponding naphthalene carboxylic acids. Oxidation in the presence of transition metal salts not only accelerates but also selectively decomposes the hydroperoxides. Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents. Aromatics can react exothermically with bases and with diazo compounds.

Control parameters

Occupational Exposure Limits (OEL)

Occupational Exposure Limits	(OEL)								
INGREDIENT DATA									
Source	Ingredient	Material name	TWA		STEL		Peak		Notes
Australia Exposure Standards	toluene	Toluene	50 ppm / 19	91 mg/m3	574 mg/r	n3 / 150 ppm	Not Ava	ilable	Not Availabl
Australia Exposure Standards	acetone	Acetone	500 ppm / 1	1185 mg/m3	2375 mg	/m3 / 1000 ppm	Not Ava	ilable	Not Availabl
Australia Exposure Standards	2-methylpentane	Hexane, other isomers	500 ppm / 1	1760 mg/m3	3500 mg	/m3 / 1000 ppm	Not Available Not		Not Availabl
Emergency Limits									
Ingredient	Material name	Material name TEEL-1 TEEL-2 TEEL-3					5		
naphtha petroleum, light, hydrotreated	Naphtha (petroleun	Naphtha (petroleum), hydrotreated light 1,000 mg/m3 11,000 mg/m3 66,000				mg/m3			
toluene	Toluene			Not Availa	able	Not Available		Not Ava	ailable
acetone	Acetone			Not Availa	able	Not Available		Not Ava	ailable
2-methylpentane	Methylpentane, 2-;	(Isohexane)		1,000 ppm	n	11000** ppm		66000*	** ppm
Ingredient	Original IDLH			F	Revised IDLH				
naphtha petroleum, light, hydrotreated	Not Available			١	Not Available				
toluene	500 ppm			١	Not Available				
acetone	2,500 ppm				Not Available				
2-methylpentane	Not Available								
Occupational Exposure Bandin	g								
Ingredient	Occupational Exp	Occupational Exposure Band Rating Occupational Exposure Band Limit							
naphtha petroleum, light, hydrotreated	E ≤ 0.1 ppm								
Notes:	adverse health out	sure banding is a process of a comes associated with expos concentrations that are exped	ure. The outpu	t of this proce	ess is an occup				•
xposure controls									
Appropriate engineering controls	be highly effective i The basic types of Process controls w Enclosure and/or is	Is are used to remove a haza in protecting workers and will engineering controls are: hich involve changing the way solation of emission source will es" air in the work environment	typically be ind y a job activity hich keeps a se	lependent of or process is	worker interac	tions to provide this e the risk.	high level	of protec	ction.
Personal protection									
Eye and face protection	 Chemical gogg Contact lenses 	with side shields. Jles. may pose a special hazard; lenses or restrictions on use,					ritten policy	y docume	ent, describing
Skin protection	See Hand protection	on below							
Hands/feet protection	 Wear safety for The selection of su manufacturer. Whe 	protective gloves, e.g. PVC. otwear or safety gumboots, e itable gloves does not only de re the chemical is a preparati o be checked prior to the app	epend on the m ion of several s				-		

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care.

 Body protection
 See Other protection below

 • Overalls.

 • Overalls.

 • PVC Apron.

 • PVC Apron.

 • PVC oprotective 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 with a sole made from a conductive compound chemically bound to the botom 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.

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 $\ computer-$

Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or

generated selection:

RLA Spray (Contact Adhesive
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Material	CPI
PE/EVAL/PE	А
TEFLON	В
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
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
VITON	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.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance Thin red or yellow highly flammable liquid with typical hydrocarbon liquid odour; not miscible with water.

Physical state	Liquid	Relative density (Water = 1)	0.81
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)	50-112	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-29	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	13	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	2.15 (acetone)	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	24	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7

exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

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

^ - Full-face

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

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Conditions to avoid

See section 7

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RLA Spray Contact Adhesive

Conditions to avoid	See section 7			
Incompatible materials	See section 7			
Hazardous decomposition products	See section 5			
ECTION 11 Toxicological i	nformation			
formation on toxicological e	Iffects			
Inhaled	of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. 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. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor. Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure.			
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage 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) Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.			
Skin Contact	The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact 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 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 of the material and ensure that any external damage is suitably protected.			
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. The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated.			
Chronic	 Harmful: danger of serious damage to health by prolonged exposure through inhalation. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. 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. Intentional abuse (glue sniffing) or occupational exposure to toluene can result in chronic habituation. Chronic abuse has caused inco-ordination, tremors of the extremeties (due to widespread cerebrum withering), headache, abnormal speech, temporary memory loss, convulsions, coma, drowsiness, reduced colour perception, blindness, nystagmus (rapid, involuntary eye movements), hearing loss leading to deafness and mild dementia. Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin. Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS] 			
RLA Spray Contact Adhesive	тохісіту	IRRITATION		
	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
naphtha petroleum, light,	Dermal (rabbit) LD50: >1900 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]		
hydrotreated	Inhalation(Rat) LC50; 73860 ppm4hrs ^[1]	Skin: adverse effect observed (irritating) ^[1]		
	Oral(Rat) LD50; >2000 mg/kg ^[1]			
	τοχιςιτγ	IRRITATION		
	Dermal (rabbit) LD50: >5000 mg/kg ^[1]	Eye (rabbit): 2mg/24h - SEVERE		

toluene

Inhalation(Rat) LC50; =12.5-28.8 mg/l4hrs^[2]

Oral(Mammal) LD50; 0.004 mg/kg^[2]

Skin (rabbit):500 mg - moderate Skin: adverse effect observed (irritating)^[1]

Eye (rabbit):0.87 mg - mild

Eye (rabbit):100 mg/30sec - mild

Eye: adverse effect observed (irritating)^[1] Skin (rabbit):20 mg/24h-moderate

Continued...

		Skin: no adverse effect observed (not irritating) ^[1]
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: >7.426 mg/kg ^[1]	Eye (human): 500 ppm - irritant
	Inhalation(Mouse) LC50; 44 mg/L4hrs ^[2]	Eye (rabbit): 20mg/24hr -moderate
acetone	Oral(Mouse) LD50; 0.003 mg/kg ^[2] Eye (rabbit): 3.95 mg - SEVERE	
acetone		Eye: adverse effect observed (irritating) ^[1]
		Skin (rabbit): 500 mg/24hr - mild
	Skin (rabbit):395mg (open) - mild	
		Skin: no adverse effect observed (not irritating) ^[1]
	ΤΟΧΙΟΙΤΥ	IRRITATION
2-methylpentane	Oral(Rat) LD50; ~15.84 mg/kg ^[1]	Not Available
	Specified data extracted from RTECS - Register of Toxic Effort Low Boiling Point Naphthas (LBPNs):	fect of chemical Substances
NAPHTHA PETROLEUM, LIGHT, HYDROTREATED	Acute toxicity: LBPNs generally have low acute toxicity by the oral (median lethal dose [LD50] in rats > 2000 mg/kg-bw), inhalation (LD50 in rats > 5000 mg/m3) and dermal (LD50 in rabbits > 2000 mg/kg-bw) routes of exposure Most LBPNs are mild to moderate eye and skin irritants in rabbits, with the exception of heavy catalytic cracked and heavy catalytic reformed naphthas, which have higher primary skin irritants in rabbits, with the exception of heavy catalytic cracked and heavy catalytic reformed naphthas, which have higher primary skin irritants in rabbits, with the exception of heavy catalytic cracked and heavy catalytic reformed naphthas, which have higher primary skin irritants in rabbits, with the exception of heavy catalytic cracked and heavy catalytic reformed naphthas, which have higher primary skin irritants in rabbits, with the exception of heavy catalytic cracked and heavy catalytic reformed naphthas, which have higher primary skin irritants in rabbits, with the exception of heavy catalytic cracked and heavy catalytic reformed naphthas, which have higher primary skin irritants in rabbits, which heave higher catalytic cracked and heavy catalytic reformed and the exception of the studies were carried out by the inhalation route of exposure. Renal effects, including increased kidney weight, renal lesions (renal tubule dilation, necrosis) and hyaline droplet formation, observed in male rats exposed orally or by inhalation to most LBPNs, were considered species- and sex-specific These effects were determined to be due to a mechanism of action not relevant to humans -specifically, the interaction between hydrocarbon metabolites and alpha-2-microglobulin, an enzyme not produced in substantial amounts in female rats, mice and other species, including humans. Animal studies indicate that normal, branched and cyclic parafilins are absorbed from the gastrointestinal tract and that the absorption of n-parafilins is inversely proportional to the carbon chain length, with lithe absorption boxed to the carbon cha	
	For toluene: Acute toxicity: Humans exposed to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis (sleepiness) and death. When inhaled or swallowed, toluene can cause severe central nervous system depression, and in large doses has a narcotic effect. 60mL has caused death. Death of heart muscle fibres, liver swelling, congestion and bleeding of the lungs and kidney injury were all found on autopsy. Exposure to inhalation at a concentration of 600 parts per million for 8 hours resulted in the same and more serious symptoms including euphoria (a feeling of well-being), dilated pupils, convulsions and nausea.	
TOLUENE	congestion and bleeding of the lungs and kidney injury were Exposure to inhalation at a concentration of 600 parts per n	otic effect. 60mL has caused death. Death of heart muscle fibres, liver swelling, e all found on autopsy. million for 8 hours resulted in the same and more serious symptoms including euphor
TOLUENE	congestion and bleeding of the lungs and kidney injury were Exposure to inhalation at a concentration of 600 parts per m (a feeling of well-being), dilated pupils, convulsions and nate For acetone: The acute toxicity of acetone is low. Acetone is not a skin in	otic effect. 60mL has caused death. Death of heart muscle fibres, liver swelling, e all found on autopsy. million for 8 hours resulted in the same and more serious symptoms including eupho

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

Toxicity

RLA Spray Contact Adhesive	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species		Value	Source
	LC50	96	Fish		4.1mg/L	2
naphtha petroleum, light, hydrotreated	EC50	48	Crustacea	Crustacea		2
nyurotreateu	EC50	72	Algae or other aquatic plants	Algae or other aquatic plants		2
	NOEL	72	Algae or other aquatic plants		0.1mg/L	2
	Endpoint	Test Duration (hr)	Species	Va	lue	Sourc
	LC50	96	Fish	0.0031704		4
	EC50	48	Crustacea	Crustacea -5.46-9		4
toluene	EC50	96	Algae or other aquatic plants	Algae or other aquatic plants 2.66-mg/l		4
	BCF	180	Not Available	Not Available 50.9m		4
	NOEL	168	Crustacea	0.0	08-mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	•	Source
	LC50	96	Fish	>100	>100mg/L	
acetone	EC50	48	Crustacea	6098.	6098.4mg/L	
accione	EC50	96	Algae or other aquatic plants	-9.873-27.684mg/L		4
	NOEC	96	Not Available	<0.00000005- =mg/L		4
	Endpoint	Test Duration (hr)	Species	Species Va		Sourc
2-methylpentane	EC50	96	Algae or other aquatic plants	Algae or other aquatic plants 4.321mg/L		2
	NOEL	336	Not Available	9.	79.5000-mg/L	4
Legend:	V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4.	CHA Registered Substances - Ecotoxicological . US EPA, Ecotox database - Aquatic Toxicity D .TT (Japan) - Bioconcentration Data 8. Vendor D	ata 5. ECETOC Ad		

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

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

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
2-methylpentane	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
toluene	LOW (BCF = 90)
acetone	LOW (BCF = 0.69)
2-methylpentane	LOW (LogKOW = 3.2145)

Mobility in soil

Ingredient	Mobility
toluene	LOW (KOC = 268)
acetone	HIGH (KOC = 1.981)
2-methylpentane	LOW (KOC = 124.9)

SECTION 13 Disposal considerations

Waste treatment methods		
Product / Packaging disposal	 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. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or 	

disposal facility can be identified.
Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).
Decontaminate empty containers.

SECTION 14 Transport information

Labels Required	
Marine Pollutant	
HAZCHEM	•3YE

Land transport (ADG)

UN number	133		
UN proper shipping name	DHESIVES containing flammable liquid		
Transport hazard class(es)	Class 3 Subrisk Not Applicable		
Packing group	11		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions Not Applicable Limited quantity 5 L		

Air transport (ICAO-IATA / DGR)

· ·	,			
UN number	1133			
UN proper shipping name	Adhesives containing flammable liquid			
	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3L		
Packing group	11			
Environmental hazard	Environmentally hazardous			
Special precautions for user	Special provisions		A3	
	Cargo Only Packing Instructions		364	
	Cargo Only Maximum Qty / Pack		60 L	
	Passenger and Cargo Packing Instructions		353	
	Passenger and Cargo Maximum Qty / Pack		5 L	
	Passenger and Cargo	Passenger and Cargo Limited Quantity Packing Instructions		
	Passenger and Cargo Limited Maximum Qty / Pack		1 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y341	

Sea transport (IMDG-Code / GGVSee)

UN number	1133		
UN proper shipping name	ADHESIVES containing flammable liquid		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
Packing group	II		
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS NumberF-E, S-DSpecial provisionsNot ApplicableLimited Quantities5 L		

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

Product name	Group
naphtha petroleum, light, hydrotreated	Not Available
toluene	Not Available
acetone	Not Available
2-methylpentane	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
naphtha petroleum, light, hydrotreated	Not Available
toluene	Not Available
acetone	Not Available
2-methylpentane	Not Available

SECTION 15 Regulatory information

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

naphtha petroleum, light, hydrotreated is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

toluene is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

acetone is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australian Inventory of Industrial Chemicals (AIIC)

2-methylpentane is found on the following regulatory lists

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

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (naphtha petroleum, light, hydrotreated; toluene; acetone; 2-methylpentane)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (naphtha petroleum, light, hydrotreated)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 Other information

Revision Date	15/01/2021
Initial Date	15/01/2021

Other information

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

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

Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average PC – STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit_o IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest 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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