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Safety Data Sheet according to WHS Regulations

Printing date 24.06.2024 Version number 4 Revision: 24.06.2024

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- · Product identifier
 - Trade name: Universal Adhesive
 - · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - Application of the substance / the mixture Tray adhesive for use with silicone impression materials
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier: Kulzer Australia Ptv Ltd Unit 20, 53 Lorraine St PEAKHURST NSW 2210 Australia
 - · Informing department: see above Emergency telephone number:
 - Poison Information Number: Australia 13 11 26 & New Zealand 0800 764 766

2 Hazard(s) Identification

Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
 - GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms







GHS02 GHS05 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

tetra-n-butoxytitanium

· Hazard statements

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eve damage.

May cause drowsiness or dizziness.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Avoid release to the environment.

Wear protective gloves / eye protection.

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Wear protective clothing.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or if you feel unwell. Call a POISON CENTER or doctor/physician.

Other hazards -

Results of PBT and vPvB assessment

· PBT:

556-67-2 octamethylcyclotetrasiloxane

· vPvB:

556-67-2 octamethylcyclotetrasiloxane

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
 - · Description: -

· Danger	ous components:	
141-78-6	ethyl acetate Flam. Liq. 2, H225 Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H336	≥10-≤25%
1330-20-7	xylene, mixed isomers, pure Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	≥0-<10%
5593-70-4	tetra-n-butoxytitanium Flam. Liq. 3, H226 Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335-H336	≥3-≤5%
100-41-4	ethylbenzene Flam. Liq. 2, H225 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332; Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319	<i>≥</i> 0-≤5%
556-67-2	octamethylcyclotetrasiloxane Flam. Liq. 3, H226 Repr. 2, H361 PBT; vPvB	<1%

[·] Additional information For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- After skin contact If skin irritation continues, consult a doctor.
- · After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

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- · Information for doctor
 - · Most important symptoms and effects, both acute and delayed No further relevant information available.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.

- For safety reasons unsuitable extinguishing agents Water with a full water jet.
- · Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

- · Protective equipment: No special measures required.
- Additional information -

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

Do not flush with water or aqueous cleansing agents

Reference to other sections

No dangerous materials are released.

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

-

7 Handling and Storage

- · Handling
 - · Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Storage
 - Requirements to be met by storerooms and containers: Store in cool location.
 - Information about storage in one common storage facility: Not required.
 - · Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

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· Specific end use(s) No further relevant information available.

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Additional information about design of technical systems: No further data; see section 7.			
Components with critical values that require monitoring at the workplace:			
	ethyl acetate		
NES Sho	ort-term value: 1440 mg/m	³ , 400 ppm	
	g-term value: 720 mg/m³, ' xylene, mixed isomers,		
	ort-term value: 655 mg/m³,		
	g-term value: 350 mg/m³,		
00-41-4	ethylbenzene	• •	
WES Sho Lon	ort-term value: 543 mg/m³, g-term value: 434 mg/m³,	, 125 ppm 100 ppm	
· DNI	ELs		
41-78-6	ethyl acetate		
Oral	general population, long	•	,
Dermal	worker industrial, long te		63 mg/Kg/d (not defined)
	general population, long	•	,
nhalative	worker industrial, acute,	•	1,468 mg/m3 (not defined)
	worker industrial, acute, local		1,468 mg/m3 (not defined)
	worker industrial, long te	-	734 mg/m3 (not defined)
	worker industrial, long term, local		734 mg/m3 (not defined)
	general population, acute, systemic		734 mg/m3 (not defined)
	general population, acute		734 mg/m3 (not defined)
	general population, long	. •	,
07 0	general population, long		367 mg/m3 (not defined)
056-67-2 (Dral	octamethylcyclotetrasilo		2.7 mg/Kg (not defined)
	general population, long	•	
ıııaıalıve	worker industrial, long te worker industrial, long te		73 mg/m3 (not defined) 73 mg/m3 (not defined)
			,
	general population, long term, systemic general population, long term, local		13 mg/m3 (not defined)
· PNECs		torrii, roodi	To mg/me (not demied)
	ethyl acetate		
reshwate	-	0.24 mg/l (not	defined)
narine wa		0.024 mg/l (no	,
	eatment plant	650 mg/l (not d	•
,		1.15 mg/Kg (n	,



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soil, dry weight	0.148 mg/Kg (not defined)
556-67-2 octamethylcyclotetrasile	oxane
freshwater	0.0015 mg/l (not defined)
marine water	0.00015 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	3 mg/Kg (not defined)
sediment, dry weight, marine water	0.3 mg/Kg (not defined)

· Additional information: The lists that were valid during the compilation were used as basis.

· Personal protective equipment

General protective and hygienic measures

Avoid contact with the eyes.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Breathing equipment:

Not neccessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

· Protection of hands:

Check protective gloves prior to each use for their proper condition. recommended

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product 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.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

Nitrile rubber, NBR

Eye protection: Tightly sealed safety glasses.
 Body protection: Light weight protective clothing

9 Physical and Chemical Properties

· General Information

· Appearance:

Form: Fluid
Colour: Blue
Smell: Ester-like
Odour threshold: Not determined.
pH-value: Not determined.

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· Change in condition

· Melting point/freezing point: Not determined

Initial boiling point and boiling range: 77 °C · Flash point: 3 °C

· Inflammability (solid, gaseous) Not applicable.

· Auto-ignition temperature: 460 °C

Decomposition temperature: Not determined.
 Self-inflammability: Product is not selfigniting.

• Explosive properties: Product is not explosive. However, formation of explosive air/

vapour mixtures is possible.

· Critical values for explosion:

Lower:
Upper:
Steam pressure at 20 °C:
Pensity at 20 °C
Relative density
Vapour density
Evaporation rate

2.1 Vol %
11.5 Vol %
102 hPa
1.20169 g/cm³
Not determined.
Not determined.

Solubility in / Miscibility with

· Water: Not miscible or difficult to mix

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

dynamic: Not determined.kinematic: Not determined.

Solvent content:

· Solids content: 0.0 %

• Other information No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- Conditions to be avoided: No decomposition if used and stored according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: None
- Additional information: -

11 Toxicological Information

- · Information on toxicological effects
 - · Acute toxicity Based on available data, the classification criteria are not met.
 - · LD/LC50 values that are relevant for classification:

141-78-6 ethyl acetate

Dermal LD50 >20,000 mg/kg (rabbit)

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1330-20-7	xylene, m	nixed isomers, pure	
Oral	LD50	8,700 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	6,350 mg/l (rat)	
100-41-4	100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)	
Dermal	LD50	17,800 mg/kg (rabbit)	
556-67-2	octamethy	lcyclotetrasiloxane	
Oral	LD50	>4,800 mg/kg (rat) (OECD 401)	
Dermal	LD50	>2,375 mg/kg (rat) (OECD 402)	
Inhalative	LC50/4 h	36 mg/l (rat) (OECD 403)	

- · Skin corrosion/irritation
- Causes skin irritation.

- Serious eye damage/irritation
 Causes serious eye damage.
 Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
 Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure

May cause drowsiness or dizziness.

- · STOT-repeated exposure Based on available data, the classification criteria are not met. · Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological Information

	XIC	

loxicity		
· Aquatic	toxicity:	
141-78-6 etl	hyl acetate	
LC50/96h	230 mg/l (fish)	
NOEC / 21d	2.4 mg/l (daphnia) (OECD 211)	
NOEC / 72h	>100 mg/l (algae) (OECD 201)	
1330-20-7 x	ylene, mixed isomers, pure	
LC50/96h	13.4 mg/l (fish)	
EC50	165 mg/l (daphnia)	
556-67-2 oc	tamethylcyclotetrasiloxane	
EC50/21d	>0.015 mg/L (daphnia) (EPA OTS 797.1330)	
EC50/48h	>0.015 mg/l (daphnia) (EPA OTS 797.1300)	
LC50/96h	>0.022 mg/l (fish) (EPA OTS 797.1400)	
NOEC / 91d	≥0.0044 mg/l (fish)	
NOEC / 21d	≥0.015 mg/l (daphnia) (EPA OTS 797.1330)	
NOEC / 96h	<0.022 mg/l (algae) (EPA OTS 797.1050)	
	·	(Contd. on page



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≥0.022 mg/l (fish) (EPA OTS 797.1400) NOEC / 48h ≥0.015 mg/l (daphnia) (EPA OTS 797.1300) ErC50/ 96h >0.022 mg/L (algae) (EPA OTS 797.1050)

Persistence and degradability

141-78-6 ethyl acetate

Biodegradation 69 % /20d (not defined)

100-41-4 ethylbenzene

Biodegradation 68 % (not defined)

556-67-2 octamethylcyclotetrasiloxane

Biodegradation 3.7 % /29d (not defined) (OECD 310)

- Behaviour in environmental systems:
 - · Bioaccumulative potential

141-78-6 ethyl acetate

Bloconcentration factor (BCF) 30 (not defined)

556-67-2 octamethylcyclotetrasiloxane

Bloconcentration factor (BCF) 12,400 (not defined)

- Mobility in soil No further relevant information available.
- · Additional ecological information:
 - · General notes:

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

- · Results of PBT and vPvB assessment
 - · PBT:

556-67-2 octamethylcyclotetrasiloxane

· vPvB:

556-67-2 octamethylcyclotetrasiloxane

Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
 - · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

- · Uncleaned packagings:
 - Recommendation:

Disposal must be made according to official regulations.

Non contaminated packagings can be used for recycling.

- AL

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4 Transport information	
· UN-Number · ADG, IMDG, IATA	UN1866
UN proper shipping name ADG IMDG, IATA	1866 RESIN SOLUTION, special provision 640D RESIN SOLUTION
· Transport hazard class(es)	
· ADG	
· Class	3 (F1) Flammable liquids.
· Label	3`´
· IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
· Packing group · ADG, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids.
Kemler Number:	33
· EMS Number: · Stowage Category	<i>F-E,<u>S-E</u> В</i>
Transport in bulk according to Annex Marpol and the IBC Code	II of Not applicable.
· Transport/Additional information:	-
· ADG	
· Limited quantities (LQ)	5L
Excepted quantities (ÉQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E



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· IMDG

Limited quantities (LQ)

· Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation":

UN 1866 RESIN SOLUTION, SPECIAL PROVISION

640D, 3, II

5L

15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

All ingredients are listed.

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

- · Directive 2012/18/EU
 - · Named dangerous substances ANNEX I None of the ingredients is listed.
 - · Seveso category P5c FLAMMABLE LIQUIDS
 - Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
- National regulations

The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.

- Other regulations, limitations and prohibitive regulations
 - · AICS Australian Inventory of Chemical Substances

All ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the ADR: Accord relatif au transport international des marchandises dangereuses International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
I D50: Lethal dose, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A: Serious eye damage/eye irritation – Category 2A: Serious eye formation – Category 2A: Serious eye damage/eye irritation – Category 2A: Serious eye formage/eye irritati

^{*} Data compared to the previous version altered.