



Safety Data Sheet

according to 2001/58/EC

Reto Adhesive

Print date : 13.03.2007

001412

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1. Identification of the preparation and of the company

Identification of the preparation

Reto Adhesive

Use of the preparation

Adhesive for polysiloxane silicones.

Company identification

Company name : Kettenbach GmbH & Co. KG
Street : Im Heerfeld 7
Place : D-35713 Eschenburg
Contact person : Quality Assurance Manager
e-mail : info@kettenbach.de
Internet : www.kettenbach.de

Telephone : + 49(0) 2774/705-0
Telefax : +49 (0)2774/705-33

2. Composition/information on ingredients

Chemical characterization (preparation)

Preparation based on silicone resin in organic solvents.

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
205-500-4	141-78-6	ethyl acetate	10 - 25 %	F, Xi R11-36-66-67
215-535-7	1330-20-7	xylene	5 - 10 %	Xn, Xi R10-20/21-38
202-849-4	100-41-4	ethylbenzene	0 - 5 %	F, Xn R11-20
227-006-8	5593-70-4	Butyl titanate (IV)	0 - 5 %	Xi R10-36

Full text of each relevant R phrase can be found in heading 16.

3. Hazards identification

Classification

Symbols : Highly flammable, Harmful, Irritant
R-phrases :
Highly flammable.
Harmful by inhalation.
Irritating to eyes.
Repeated exposure may cause skin dryness or cracking.

4. First aid measures

General information

Take off immediately all contaminated clothing

After inhalation

Provide fresh air. Consult physician if problems persist. If victim is at risk of losing consciousness, position and transport on their side.

After contact with skin

In general the product is not skin irritative. Consult physician if problems persist.

After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion

Immediately get medical attention. Rinse mouth immediately and drink large quantities of water.

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5. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide (CO₂). Extinguishing powder. Atomized water.

Extinguishing media which must not be used for safety reasons

High power water jet.

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

In case of fire and/or explosion do not breathe fumes.

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Extinguishing materials should be selected according to the surrounding area.

6. Accidental release measures

Personal precautions

Provide fresh air. Remove from all sources of ignition. Wear personal protection equipment.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods for cleaning up/taking up

Wipe up with absorbent material (eg. cloth, fleece). Clean contaminated articles and floor according to the environmental legislation. Do not rinse down with water.

Additional information

No release of hazardous substances.

7. Handling and storage

Handling

Advice on safe handling

Keep container tightly closed. Avoid contact with skin and eyes. Use only in well-ventilated areas.

Advice on protection against fire and explosion

Take precautionary measures against static discharges. Keep away from sources of ignition. No smoking.

Further information on handling

Provide fresh air.

Storage

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

8. Exposure controls/personal protection

Exposure limit values

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Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1330-20-7	Xylene, o-, m-, p- or mixed isomers	100	441		TWA (8 h)	WEL
		150	662		STEL (15 min)	WEL

BAT values (TRGS 903)

CAS No.	Substance	Value	Parameter	Test material	Sampling time
100-41-4	Ethylbenzol	800 mg/g	Mandelsäure plus Phenylglyoxylsäure	U	b
1330-20-7	Xylol (alle Isomeren)	2 g/l	Methylhippur-(Tolur-)säure	U	b

Exposure controls

Protective and hygiene measures

Only wear fitting, comfortable and clean protective clothing. Change contaminated clothing.
Wash hands when done working with material; at breaks, lunch, shift changes, etc. Protect skin by using skin protective cream.

Hand protection

Hand protection: not required.
Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks. Recommended makes of protective gloves: NBR (Nitrile rubber).

Eye protection

Framed glasses.

Skin protection

Wear suitable protective clothing.

9. Physical and chemical properties

General information

Physical state : liquid
Colour : blue
Odour : characteristic

Important health, safety and environmental information

Test method

Changes in the physical state

Boiling point : > 70 °C
Flash point : 3 °C

Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits : ca. 2,1 vol. %
Upper explosion limits : ca. 11,5 vol. %
Vapour pressure : 102 hPa
(at 20 °C)

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Density (at 20 °C) :

1,1 g/cm³

Water solubility :
(at 20 °C)

slightly soluble

Other information

Ignition temperature :

> 400 °C

10. Stability and reactivity

Conditions to avoid

None by intended use.

Materials to avoid

none / none

Hazardous decomposition products

None by intended use.

Additional information

Highly flammable.

Fumes may form explosive mixtures with air.

11. Toxicological information

Acute toxicity

Acute toxicity, oral LD50:
> 10.000 mg/kg rat.

Corrosive and irritant effects

Irritant effect on the skin: Not an irritant.

Irritant effect on the eye: Not an irritant.

Sensitising effects

Sensitization: no danger of sensitization.

Further information

There is no obligatory labelling requirement according to the regulations covering preparations 1999/45/EC.

12. Ecological information

Further information

Preparation not tested. No data available

Leakage into the environment must be prevented.

13. Disposal considerations

Advice on disposal

Dispose of waste according to applicable local, state, and federal regulations.

Waste disposal number of waste from residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances
Classified as hazardous waste.

Contaminated packaging

Cleaned containers may be recycled.

14. Transport information

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Land transport (ADR/RID)

ADR/RID class : 3
Warning plate
Hazard-no. : 33
UN number : 1866
Hazard label : 3
ADR/RID packing group : II

Description of the goods

RESIN SOLUTION, FLAMMABLE
(contains ethyl acetate, xylene)

Inland waterways transport

ADN/ADNR class : 3
UN number : 1866

Description of the goods

RESIN SOLUTION, FLAMMABLE
(contains ethyl acetate, xylene)

Marine transport

IMDG code : 3
UN number : 1866
EmS : 3-05
IMDG packing group : II
Hazard label : 3

Description of the goods

RESIN SOLUTION, FLAMMABLE
(contains ethyl acetate, acetone)

Air transport

ICAO/IATA-DGR : 3
UN/ID number : 1866
Hazard label : 3
IATA-packing instructions - Passenger : 305
IATA-max. quantity - Passenger : 5
IATA-packing instructions - Cargo : 307
IATA-max. quantity - Cargo : 60
ICAO packing group : II

Description of the goods

RESIN SOLUTION, FLAMMABLE
(contains ethyl acetate, acetone)

15. Regulatory information

Labelling

Danger symbols : F - Highly flammable; Xn - Harmful



F - Highly flammable

Xn - Harmful

Labelling according to EC-guidelines : The classification was undertaken in accordance with the method of calculation governed by the preparation regulations (1999/45/EC).

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Hazardous component(s) to be indicated on label

Contains: ethyl acetate. Xylene.

R phrases

- 11 Highly flammable.
- 20 Harmful by inhalation.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.

S phrases

- 09 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe Dampf.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 33 Take precautionary measures against static discharges.

National regulations

Water contaminating class : 3 - highly water contaminating

16. Other information

List of relevant R phrases

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 36 Irritating to eyes.
- 38 Irritating to skin.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.
- 20/21 Harmful by inhalation and in contact with skin.

Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)