

Raychem Brand S1005 adhesive, part A

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name: Raychem Brand S1005 adhesive, part A

1.2 Use of the substance/preparation:

Adhesive

1.3 Company/undertaking identification:

TYCO Electronics UK Ltd
Faraday Road, Dorcan
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1.4 Emergency telephone:

24h/24h:
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2. Hazards identification

DSD/DPD

Classified dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

Irritating to eyes and skin

May cause sensitisation by skin contact

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Other hazards

Not readily biodegradable in water

3. Composition/information on ingredients

Name	CAS No EINECS/ELINCS	Conc.	Classification according to DSD/ DPD	Classification according to CLP	Note
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)	25068-38-6 500-033-5	60%<C<100%	Xi; R36/38 R43 N; R51-53	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	(1)

(1) For R-phrases and H-statements in full: see heading 16

4. First aid measures

4.1 After inhalation:

Remove the victim into fresh air

Respiratory problems: consult a doctor/medical service

4.2 Skin contact:

Wash immediately with lots of water

Soap may be used

Take victim to a doctor if irritation persists

4.3 Eye contact:

Rinse immediately with plenty of water

Do not apply neutralizing agents

Take victim to an ophthalmologist if irritation persists

4.4 After ingestion:

Created by: Brandweerinformatiecentrum voor Gevaarlijke Stoffen vzw (BIG)
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Rinse mouth with water
Immediately after ingestion: give lots of water to drink
Do not induce vomiting
Consult a doctor/medical service if you feel unwell

5. Fire-fighting measures

5.1 Suitable extinguishing media:

Water spray
Polyvalent foam
BC powder
Carbon dioxide

5.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium

5.3 Special exposure hazards:

Heating increases the fire hazard
On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide)

5.4 Instructions:

Dilute toxic gases with water spray
Take account of environmentally hazardous firefighting water
Use water moderately and if possible collect or contain it

5.5 Special protective equipment for fire-fighters:

Gloves
Face-shield
Protective clothing
Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal precautions:

See heading 8.2

6.2 Environmental precautions:

Dam up the liquid spill
Prevent soil and water pollution
Prevent spreading in sewers
See heading 13

6.3 Methods for cleaning up:

Take up liquid spill into inert absorbent material
Scoop absorbed substance into closing containers
Carefully collect the spill/leftovers
Clean contaminated surfaces with a soap solution
Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

Keep away from ignition sources/sparks
Observe very strict hygiene - avoid contact
Avoid contact with skin and eyes
Avoid inhaling vapours/fumes which may be released during use
Avoid inhaling dust when grinding/sanding/cutting cured material
Keep container tightly closed
Do not discharge the waste into the drain

7.2 Storage:

Safe storage requirements:

Store in a cool area
Keep out of direct sunlight
Store in a dry area

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Keep container in a well-ventilated place

Meet the legal requirements

Storage temperature: 23 °C

Max. storage time: See packaging

Keep away from:

oxidizing agents

(strong) acids

(strong) bases

7.3 Specific use(s):

See information supplied by the manufacturer for the identified use(s)

Refer to TE Connectivity product installation instructions

The curing process is exothermic (releases heat)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods:

Product name	Test	Number	Sampling method	Remark
No data available				

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

Carry operations in the open/under local exhaust/ventilation or with respiratory protection

Curing ovens must be exhausted to outdoors or to suitable emission control device

Use local exhaust ventilation when grinding/sanding/cutting cured material

Personal protective equipment:

a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit

b) Hand protection:

Gloves

- butyl rubber

- neoprene

- nitrile rubber

c) Eye protection:

Safety glasses

Use personal protective equipment as required by the risk assessment

d) Skin protection:

Protective clothing

8.2.2 Environmental exposure controls:

See headings 6.2, 6.3 and 13

9. Physical and chemical properties

9.1 General information:

Physical form	Liquid
Odour	Mild odour
Colour	Colourless to light yellow

9.2 Important health, safety and environmental information:

pH	7
Solution concentration (pH)	50 %
Boiling point	> 200 °C
Flashpoint	245 °C
Vapour pressure (20°C)	< 0.0001 hPa
Relative density	1.2
Dynamic viscosity	12-14 Pa.s
Log Pow	> 3

9.3 Other information:

Auto-ignition temperature	> 400 °C
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10. Stability and reactivity

10.1 Conditions to avoid:

Possible fire hazard

heat sources

Stability

Stable under normal conditions

Reactions

Reacts exothermically with many compounds e.g.: with (strong) oxidizers and with (some) acids/bases

10.2 Materials to avoid:

oxidizing agents

(strong) acids

(strong) bases

10.3 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide)

11. Toxicological information

11.1 Acute toxicity:

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LD50 oral (rat)

> 5000 mg/kg

11.2 Chronic toxicity:

Not listed in carcinogenicity class (IARC,EC,TLV,MAK)

Not listed in mutagenicity class (EC,MAK)

Not classified as toxic to reproduction (EC)

11.3 Acute effects/symptoms:

Inhalation:

Not a normal route of exposure

Vapours evolved during heat curing processes, and dust formed when grinding/sanding/cutting cured material, can cause:

Respiratory difficulties

Irritation of the respiratory tract

Dry/sore throat

Irritation of the nasal mucous membranes

Skin contact:

Tingling/irritation of the skin

Eye contact:

Irritation of the eye tissue

Lacrimation

Visual disturbances

Ingestion:

No data available

11.4 Chronic effects:

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:

Tingling/irritation of the skin

Swelling of the skin

Skin rash/inflammation

12. Ecological information

12.1 Ecotoxicity:

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reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)

LC50 fishes

species	value	duration (h)	remarks
SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS	1.5 - 7.7 mg/l	96 h	

EC50 Daphnia

species	value	duration (h)	remarks
DAPHNIA MAGNA	1.1 - 3.6 mg/l	24 h	

EC50 other aquatic organisms

species	value	duration (h)	remarks
CHLOROPHYTA	220 mg/l	96 h	

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LC50 fishes

species	value	duration (h)	remarks
SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS	1.5 mg/l	96 h	

EC50 Daphnia

species	value	duration (h)	remarks
DAPHNIA MAGNA	3.6 mg/l	24 h	

Sludge digestion is inhibited at > 100 mg/l, 50%, 3h

12.2 Mobility:

Solubility in/reaction with water

Literature reports: insoluble in water

Ground water

Ground water pollutant

12.3 Persistence and degradability:

Not readily biodegradable in water

12.4 Bioaccumulative potential:

Log Pow

> 3

According to literature: bioaccumulative

12.5 Results of PBT assessment:

Not applicable, based on available data

12.6 Other adverse effects:

Not dangerous for the ozone layer (1999/45/EC)

13. Disposal considerations

13.1 Provisions relating to waste:

Waste material code (Directive 2008/98/EC, decision 2001/118/EC)

08 04 09* : waste adhesives and sealants containing organic solvents or other dangerous substances

Depending on branch of industry and production process, also other EURAL codes may be applicable

Hazardous waste according to Directive 2008/98/EC

Not classified as hazardous waste when part A and part B are mixed and are fully cured

13.2 Disposal methods:

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery

Remove waste in accordance with local and/or national regulations

Do not discharge into drains or the environment

13.3 Packaging/Container:

Waste material code packaging (Directive 2008/98/EC)

15 01 10* : packaging containing residues of or contaminated by dangerous substances

14. Transport information

ADR

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Techn./chem. name ADR	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)
UN number	3082

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Class	9
Packing group	III
Hazard identification number	90
Classification code	M6
Labels	9
Environmentally hazardous substance mark	yes

RID

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Techn./chem. name RID	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)
UN number	3082
Class	9
Packing group	III
Classification code	M6
Labels	9
Environmentally hazardous substance mark	yes

ADN

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Techn./chem. name ADN	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)
UN number	3082
Class	9
Packing group	III
Classification code	M6
Labels	9
Environmentally hazardous substance mark	yes

IMO

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Techn./chem. name IMO	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)
UN number	3082
Class	9
Packing group	III
Labels	9
Marine pollutant	P
Environmentally hazardous substance mark	yes

ICAO

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Techn./chem. name ICAO	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)
UN number	3082
Class	9
Packing group	III
Labels	9
Environmentally hazardous substance mark	yes

15. Regulatory information

15.1 EU Legislation:

DSD/DPD

Classification according to directives 67/548/EEC, 1999/45/EC and 2006/8/EC

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Irritant



Dangerous for the environment

Contains: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)

R-phrases

36/38	Irritating to eyes and skin
43	May cause sensitisation by skin contact
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

24	Avoid contact with skin
37	Wear suitable gloves
61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Additional recommendations

	Contains epoxy constituents. See information supplied by the manufacturer.
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15.2 National provisions:

15.3 Specific community rules:

REACH Annex XVII - Restriction

Enumerated in Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

16. Other information

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question.

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(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Full text of any R-phrases referred to under headings 2 and 3:

R36/38	Irritating to eyes and skin
R43	May cause sensitisation by skin contact
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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Full text of any H-statements referred to under headings 2 and 3:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Full text of any classes referred to under headings 2 and 3:

Aquatic Chronic	Hazardous to the aquatic environment - chronic
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization