

## Raychem Brand S1005 Adhesive, Part A

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

#### 1.1 Product identifier:

Product name	: Raychem Brand S1005 Adhesive, Part A
Registration number REACH	: 01-2119456619-26
Product type REACH	: Substance/mono-constituent
CAS number	: 25068-38-6
EC index number	: 603-074-00-8
EC number	: 500-033-5
RTECS number	: SL6321000
Molecular mass	: < 700 g/mol

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

##### 1.2.1 Relevant identified uses

Adhesive

##### 1.2.2 Uses advised against

No uses advised against known

#### 1.3 Details of the supplier of the safety data sheet:

##### Supplier of the safety data sheet

TYCO Electronics UK Ltd  
Faraday Road, Dorcan  
SN3 5HH Swindon, United Kingdom  
☎ +44 1793 52 81 71  
☎ +44 1793 57 25 16  
REACH-ADM@te.com

#### 1.4 Emergency telephone number:

24h/24h (Telephone advice: English, French, German, Dutch):  
+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

##### 2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Eye Irrit.	category 2	H319: Causes serious eye irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
Skin Sens.	category 1	H317: May cause an allergic skin reaction.
Aquatic Chronic	category 2	H411: Toxic to aquatic life with long lasting effects.

##### 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

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

Xi; R36/38 - Irritating to eyes and skin.

R43 - May cause sensitisation by skin contact.

N; R51-53 - Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements:

##### Labelling according to Regulation EC No 1272/2008 (CLP)

Drawn up according to the criteria of Regulation (EU) No 487/2013, 4th adaptation of Regulation (EC) No 1272/2008



Signal word  
H-statements



Warning

# Raychem Brand S1005 Adhesive, Part A

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

## P-statements

P280	Wear protective gloves and eye protection.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

## 2.3 Other hazards:

### CLP

Not readily biodegradable in water

## SECTION 3: Composition/information on ingredients

### 3.1 Substances:

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) 01-2119456619-26	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)(10)(8)	Mono-constituent

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

(8) Specific concentration limits, see heading 16

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

### 3.2 Mixtures:

Not applicable

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

#### General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

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.

### 4.2 Most important symptoms and effects, both acute and delayed:

#### 4.2.1 Acute symptoms

##### After 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.

##### After skin contact:

Tingling/irritation of the skin.

##### After eye contact:

Irritation of the eye tissue. Lacrimation. Visual disturbances.

##### After ingestion:

No effects known.

#### 4.2.2 Delayed symptoms

No effects known.

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Date of revision: 2014-09-11

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Revision number: 0600

Product number: 28647

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## 4.3 Indication of any immediate medical attention and special treatment needed:

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

#### 5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. BC powder. Carbon dioxide.

#### 5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium.

### 5.2 Special hazards arising from the substance or mixture:

Upon combustion: CO and CO<sub>2</sub> are formed. Polymerizes on exposure to temperature rise.

### 5.3 Advice for firefighters:

#### 5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Do not move the load if exposed to heat. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

#### 5.3.2 Special protective equipment for fire-fighters:

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

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Protective clothing.

Suitable protective clothing

See heading 8.2

### 6.2 Environmental precautions:

Contain leaking substance. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

### 6.3 Methods and material for containment and 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. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4 Reference to other sections:

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1 Precautions for safe 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. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

### 7.2 Conditions for safe storage, including any incompatibilities:

#### 7.2.1 Safe storage requirements:

Storage temperature: 2 - 40 °C. Store in a cool area. Keep out of direct sunlight. Store in a dry area. Keep container in a well-ventilated place. Meet the legal requirements. Max. storage time: See packaging.

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents, (strong) acids, (strong) bases, amines.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

Refer to TE Connectivity product installation instructions.

The curing process is exothermic (releases heat).

Part A can only be used with part B.

# Raychem Brand S1005 Adhesive, Part A

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters:

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

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

##### b) National biological limit values

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

#### 8.1.2 Sampling methods

If applicable and available it will be listed below.

#### 8.1.3 Applicable limit values when using the substance or mixture as intended

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

#### 8.1.4 DNEL/PNEC values

##### DNEL - Workers

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Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute systemic effects dermal	8.33 mg/kg bw/day	
	Acute systemic effects inhalation	12.25 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	8.33 mg/kg bw/day	
	Long-term systemic effects inhalation	12.25 mg/m <sup>3</sup>	

##### DNEL - General population

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Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute systemic effects dermal	3.571 mg/kg bw/day	
	Acute systemic effects oral	0.75 mg/kg bw/day	
	Long-term systemic effects dermal	3.571 mg/kg bw/day	
	Long-term systemic effects oral	0.75 mg/kg bw/day	

##### PNEC

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Compartments	Value	Remark
Fresh water	0.006 mg/l	
Marine water	0.0006 mg/l	
Aqua (intermittent releases)	0.018 mg/l	
STP	10 mg/l	
Fresh water sediment	0.996 mg/kg sediment dw	
Marine water sediment	0.0996 mg/kg sediment dw	
Soil	0.196 mg/kg soil dw	
Oral	11 mg/kg food	

#### 8.1.5 Control banding

If applicable and available it will be listed below.

### 8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 8.2.1 Appropriate engineering controls

Keep away from ignition sources/sparks. 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.

#### 8.2.2 Individual protection measures, such as personal protective equipment

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 eat, drink or smoke during work.

##### a) Respiratory protection:

Insufficient ventilation: wear respiratory protection.

##### b) Hand protection:

Gloves.

- materials (good resistance)

Butyl rubber, neoprene, nitrile rubber, PVC.

##### c) Eye protection:

Safety glasses. Use personal protective equipment as required by the risk assessment.

##### d) Skin protection:

Protective clothing.

#### 8.2.3 Environmental exposure controls:

# Raychem Brand S1005 Adhesive, Part A

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

Physical form	Liquid
Odour	Mild odour
Odour threshold	No data available
Colour	Yellow
Particle size	Not applicable (liquid)
Explosion limits	No data available
Flammability	Not easily combustible
Log Kow	>=2.918 ; Experimental value ; EU Method A.8 ; 25 °C
Dynamic viscosity	>=10120 mPa.s ; 25 °C ; ASTM D445
Kinematic viscosity	Not determined
Melting point	-16 °C
Boiling point	> 200 °C
Flash point	264-268 °C ; Closed cup ; 1028.89 hPa ; EU Method A.9
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	<0.0000046 hPa ; 20 °C ; EU Method A.4
Solubility	EU Method A.6 ; water ; 5.4-8.4 mg/l ; insoluble
Relative density	1.16 ; 25 °C
Decomposition temperature	320 °C
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

### 9.2 Other information:

Surface tension	0.0587-0.0589 N/m ; 20 °C ; EU Method A.5
Absolute density	1160 kg/m <sup>3</sup> ; 25 °C

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Temperature above flashpoint: higher fire/explosion hazard.

### 10.2 Chemical stability:

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions:

Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Violent exothermic reaction with (some) acids/bases. May polymerize on exposure to amines: pressure rise and possible bursting of container.

### 10.4 Conditions to avoid:

Keep away from ignition sources/sparks.

### 10.5 Incompatible materials:

Oxidizing agents, (strong) acids, (strong) bases, amines.

### 10.6 Hazardous decomposition products:

Upon combustion: CO and CO<sub>2</sub> are formed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Test results

#### Acute toxicity

#### Raychem Brand S1005 Adhesive, Part A

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 420	> 2000 mg/kg		Rat (female)	Experimental value	
Skin	LD50	OECD 402	> 2000 mg/kg		Rat (male/female)	Experimental value	

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Revision number: 0600

Product number: 28647

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Inhalation (vapours)	LC0	Other	0.00008 ppm	5 h	Rat (male)	Experimental value	
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## Conclusion

Low acute toxicity by the oral route  
 Low acute toxicity by the dermal route  
 Low acute toxicity by the inhalation route

## Corrosion/irritation

### Raychem Brand S1005 Adhesive, Part A

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		1; 24; 48; 72; 168 hours	Rabbit	Experimental value	
Skin	Slightly irritating	OECD 404		1; 24; 48; 72; 168 hours	Rabbit	Experimental value	

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

## Conclusion

Causes skin irritation.  
 Causes serious eye irritation.

## Respiratory or skin sensitisation

### Raychem Brand S1005 Adhesive, Part A

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 429			Mouse (female)	Experimental value	

## Conclusion

May cause an allergic skin reaction.

## Specific target organ toxicity

### Raychem Brand S1005 Adhesive, Part A

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	OECD 408	50 mg/kg bw/day		No effect	14 weeks (daily)	Rat (male/female)	Experimental value
Skin	NOAEL	OECD 411	100 mg/kg/d		No adverse systemic effects	13 week(s)	Mouse (male)	Experimental value

## Conclusion

Low sub-chronic toxicity by the dermal route  
 Low sub-chronic toxicity by the oral route

## Mutagenicity (in vitro)

### Raychem Brand S1005 Adhesive, Part A

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 472	Bacteria (S.typhimurium)		Experimental value
Positive	Other	Mouse (lymphoma L5178Y cells)		Experimental value

## Mutagenicity (in vivo)

### Raychem Brand S1005 Adhesive, Part A

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Chromosome aberration assay		Mouse (male)		Experimental value

## Carcinogenicity

### Raychem Brand S1005 Adhesive, Part A

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Dermal	NOEL	OECD 453	100 mg/kg	104 weeks (3 times/week)	Mouse (male)	Experimental value		No carcinogenic effect
Oral	NOAEL	OECD 453	15 - 100 mg/kg/d	104 weeks (daily)	Rat (male/female)	Experimental value		No carcinogenic effect

## Reproductive toxicity

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Date of revision: 2014-09-11

Reference number: 3001AE

Revision number: 0600

Product number: 28647

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## Raychem Brand S1005 Adhesive, Part A

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	OECD 414	> 540 mg/kg/d	6 - 15 days (gestation, daily)	Rat (female)	No effect	Foetus	Experimental value
Maternal toxicity	NOAEL	OECD 414	180 mg/kg bw/day	6-15 days (gestation, daily)	Rat (female)	No effect		Experimental value
Effects on fertility	NOEL	OECD 416	50 - 540 mg/kg bw/day	238 day(s)	Rat (male/female)	No effect		Experimental value

### Conclusion CMR

Not classified for reprotoxic or developmental toxicity

Not classified for mutagenic or genotoxic toxicity

Not classified for carcinogenicity

### Toxicity other effects

#### Raychem Brand S1005 Adhesive, Part A

No (test) data available

### Chronic effects from short and long-term exposure

#### Raychem Brand S1005 Adhesive, Part A

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Tingling/irritation of the skin. Swelling of the skin. Skin rash/inflammation.

## SECTION 12: Ecological information

### 12.1 Toxicity:

#### Raychem Brand S1005 Adhesive, Part A

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	2.3 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	EC50	EPA 660/3 - 75/009	9.4 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; Biomass
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	0.3 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro-organisms	IC50		>100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value

### Conclusion

Toxic to fishes

Toxic to invertebrates (Daphnia)

Toxic to algae

Inhibition of activated sludge

Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability:

#### Raychem Brand S1005 Adhesive, Part A

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	5 %	28 day(s)	Experimental value
OECD 301B: CO2 Evolution Test	6-12 %	28 day(s)	Experimental value

#### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.91	6.44 h	500000 /cm <sup>3</sup>	QSAR

#### Half-life water (t1/2 water)

Method	Value	Primary degradation/mineralisation	Value determination
OECD 111: Hydrolysis as a function of pH	86 h		Experimental value

### Conclusion

Not readily biodegradable in water

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Reference number: 3001AE

Revision number: 0600

Product number: 28647

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Hydrolysis in water

## 12.3 Bioaccumulative potential:

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### BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF		3-31			QSAR

### Log Kow

Method	Remark	Value	Temperature	Value determination
EU Method A.8		>=2.918	25 °C	Experimental value

### Conclusion

Low potential for bioaccumulation (BCF < 500)

## 12.4 Mobility in soil:

Raychem Brand S1005 Adhesive, Part A

### (log) Koc

Parameter	Method	Value	Value determination
Koc	SRC PCKOCWIN v2.0	445	QSAR
log Koc	SRC PCKOCWIN v2.0	2.65	QSAR

### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	0 %		1.9 %	84.3 %	13.8 %	Calculated value

### Conclusion

Low potential for adsorption in soil

## 12.5 Results of PBT and vPvB assessment:

Substance does not meet the screening criteria for bioaccumulation so is neither PBT nor vPvB.

## 12.6 Other adverse effects:

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### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006)

### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1 Waste treatment methods:

#### 13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09\* (wastes from MFUS of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other dangerous substances). Depending on branch of industry and production process, also other waste 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.

#### 13.1.2 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. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

#### 13.1.3 Packaging/Container

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

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR)

#### 14.1 UN number:

UN number	3082
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#### 14.2 UN proper shipping name:

Reason for revision: 2, 8, 11

Publication date: 1999-07-26

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Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
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#### 14.3 Transport hazard class(es):

Hazard identification number	90
Class	9
Classification code	M6

#### 14.4 Packing group:

Packing group	III
Labels	9

#### 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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#### 14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

### Rail (RID)

#### 14.1 UN number:

UN number	3082
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#### 14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
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#### 14.3 Transport hazard class(es):

Hazard identification number	90
Class	9
Classification code	M6

#### 14.4 Packing group:

Packing group	III
Labels	9

#### 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
--	-----

#### 14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

### Inland waterways (ADN)

#### 14.1 UN number:

UN number	3082
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#### 14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
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#### 14.3 Transport hazard class(es):

Class	9
Classification code	M6

#### 14.4 Packing group:

Packing group	III
Labels	9

#### 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
--	-----

#### 14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

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## Sea (IMDG/IMSBC)

### 14.1 UN number:

UN number	3082
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### 14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700))
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### 14.3 Transport hazard class(es):

Class	9
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### 14.4 Packing group:

Packing group	III
Labels	9

### 14.5 Environmental hazards:

Marine pollutant	P
Environmentally hazardous substance mark	yes

### 14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Annex II of MARPOL 73/78	Not applicable, based on available data
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## Air (ICAO-TI/IATA-DGR)

### 14.1 UN number:

UN number	3082
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### 14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700))
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### 14.3 Transport hazard class(es):

Class	9
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### 14.4 Packing group:

Packing group	III
Labels	9

### 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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### 14.6 Special precautions for user:

Special provisions	A97
Special provisions	A158
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	30 kg G

## SECTION 15: Regulatory information

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

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
0 %	

REACH Annex XVII - Restriction

Subject to restrictions of 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.

The identified uses are not covered by restrictions of Annex XVII of Regulation (EC) No 1907/2006

#### National legislation The Netherlands

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 03
Waterbezwaarlijkheid	6

#### National legislation Germany

WGK	2; Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)
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Reason for revision: 2, 8, 11

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Reference number: 3001AE

Revision number: 0600

Product number: 28647

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# Raychem Brand S1005 Adhesive, Part A

TA-Luft

5.2.5; I

## National legislation France

No data available

## National legislation Belgium

No data available

## Other relevant data

No data available

## 15.2 Chemical safety assessment:

A chemical safety assessment has been performed.

## SECTION 16: Other information

### Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

#### Labels



Irritant



Dangerous for the environment

#### 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.

#### 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 Toxic to aquatic organisms  
R53 May cause long-term adverse effects in the aquatic environment

#### 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.

(\*) = INTERNAL CLASSIFICATION BY BIG

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)

#### Specific concentration limits CLP

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)	C $\geq$ 5%	Eye Irrit. 2; H319	CLP Annex VI (ATP 0)
	C $\geq$ 5 %	Skin Irrit. 2; H315	CLP Annex VI (ATP 0)

#### Specific concentration limits DSD

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)	C $\geq$ 5 %	Xi; R36/38	DSD Annex VI (ATP 0)
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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. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when

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# Raychem Brand S1005 Adhesive, Part A

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## Raychem Brand S1005 Adhesive, Part B

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

#### 1.1 Product identifier:

**Product name** : Raychem Brand S1005 Adhesive, Part B  
**Registration number REACH** : 01-2119972320-44  
**Product type REACH** : Substance/UVCB  
**CAS number** : 68082-29-1  
**EC number** : 500-191-5

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

##### 1.2.1 Relevant identified uses

Adhesive

##### 1.2.2 Uses advised against

No uses advised against known

#### 1.3 Details of the supplier of the safety data sheet:

##### Supplier of the safety data sheet

TYCO Electronics UK Ltd  
 Faraday Road, Dorcan  
 SN3 5HH Swindon, United Kingdom  
 ☎ +44 1793 52 81 71  
 📠 +44 1793 57 25 16  
 REACH-ADM@te.com

#### 1.4 Emergency telephone number:

24h/24h (Telephone advice: English, French, German, Dutch):  
 +32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

##### 2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Skin Irrit.	category 2	H315: Causes skin irritation.
Eye Dam.	category 1	H318: Causes serious eye damage.
Skin Sens.	category 1	H317: May cause an allergic skin reaction.
Aquatic Chronic	category 2	H411: Toxic to aquatic life with long lasting effects.

##### 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

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

Xi; R38 - 41 - Irritating to skin. Risk of serious damage to eyes.

R43 - May cause sensitisation by skin contact.

N; R51-53 - Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements:

##### Labelling according to Regulation EC No 1272/2008 (CLP)

Drawn up according to the criteria of Regulation (EU) No 487/2013, 4th adaptation of Regulation (EC) No 1272/2008



**Signal word**

Danger

**H-statements**

H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.

# Raychem Brand S1005 Adhesive, Part B

H411 Toxic to aquatic life with long lasting effects.

## P-statements

P280 Wear protective gloves and eye protection.  
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

## 2.3 Other hazards:

### CLP

Not readily biodegradable in water

## SECTION 3: Composition/information on ingredients

### 3.1 Substances:

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 01-2119972320-44	68082-29-1 500-191-5	60% ≤C≤100%	Xi; R38 - 41 R43 N; R51-53	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411	(10)(1)	UVCB

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

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

### 3.2 Mixtures:

Not applicable

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

#### General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.

#### After ingestion:

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.

### 4.2 Most important symptoms and effects, both acute and delayed:

#### 4.2.1 Acute symptoms

##### After 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.

##### After skin contact:

Tingling/irritation of the skin. Red skin.

##### After eye contact:

Inflammation/damage of the eye tissue. Lacrimation. Visual disturbances.

##### After ingestion:

Irritation of the oral mucous membranes. Dry/sore throat. Gastrointestinal complaints.

#### 4.2.2 Delayed symptoms

No effects known.

### 4.3 Indication of any immediate medical attention and special treatment needed:

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

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Revision number: 0600

Product number: 28648

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# Raychem Brand S1005 Adhesive, Part B

## 5.1 Extinguishing media:

### 5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. BC powder. Carbon dioxide.

### 5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium.

## 5.2 Special hazards arising from the substance or mixture:

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

## 5.3 Advice for firefighters:

### 5.3.1 Instructions:

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

### 5.3.2 Special protective equipment for fire-fighters:

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

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Protective clothing.

Suitable protective clothing

See heading 8.2

### 6.2 Environmental precautions:

Contain leaking substance. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

### 6.3 Methods and material for containment and 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. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4 Reference to other sections:

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1 Precautions for safe 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. Do not eat, drink or smoke in the work area. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

### 7.2 Conditions for safe storage, including any incompatibilities:

#### 7.2.1 Safe storage requirements:

Storage temperature: 23 °C. Store in a cool area. Keep out of direct sunlight. Store in a dry area. Keep container in a well-ventilated place. Keep only in the original container. Meet the legal requirements. Max. storage time: See packaging.

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents, (strong) acids, (strong) bases.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

Refer to TE Connectivity product installation instructions.

The curing process is exothermic (releases heat).

Part A can only be used with part B.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters:

#### 8.1.1 Occupational exposure

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Publication date: 1999-07-11

Date of revision: 2014-09-11

Reference number: 3001BE

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# Raychem Brand S1005 Adhesive, Part B

## a) Occupational exposure limit values

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

## b) National biological limit values

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

### 8.1.2 Sampling methods

If applicable and available it will be listed below.

### 8.1.3 Applicable limit values when using the substance or mixture as intended

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

### 8.1.4 DNEL/PNEC values

#### DNEL - Workers

Raychem Brand S1005 Adhesive, Part B

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	3.9 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1.1 mg/kg bw/day	

#### DNEL - General population

Raychem Brand S1005 Adhesive, Part B

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.97 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.56 mg/kg bw/day	
	Long-term systemic effects oral	0.56 mg/kg bw/day	

#### PNEC

Raychem Brand S1005 Adhesive, Part B

Compartment	Value	Remark
Fresh water	0.00434 mg/l	
Marine water	0.000434 mg/l	
Aqua (intermittent releases)	0.0434 mg/l	
STP	3.84 mg/l	
Fresh water	434.02 mg/kg sediment dw	
Marine water	43.4 mg/kg sediment dw	
Soil	86.78 mg/kg soil dw	

### 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from ignition sources/sparks. 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.

### 8.2.2 Individual protection measures, such as personal protective equipment

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. Do not eat, drink or smoke in the work area. Keep container tightly closed. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Insufficient ventilation: wear respiratory protection.

#### b) Hand protection:

Gloves.

Materials	Breakthrough time	Thickness
butyl rubber	>480 minutes	
neoprene	>10<480 minutes	
nitrile rubber	>10<480 minutes	

#### c) Eye protection:

Safety glasses. Use personal protective equipment as required by the risk assessment.

#### d) Skin protection:

Protective clothing.

### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

Physical form	Viscous liquid
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# Raychem Brand S1005 Adhesive, Part B

Odour	Amine-like odour
Odour threshold	No data available
Colour	Brown
Particle size	Not applicable (liquid)
Explosion limits	No data available
Flammability	Not easily combustible
Log Kow	10.34 ; Calculated
Dynamic viscosity	300 - 600 mPa.s ; 75 °C
Kinematic viscosity	Not determined
Melting point	<-60 °C ; EU Method A.1
Boiling point	> 200 °C
Flash point	> 110 °C ; Closed cup ; EU Method A.9
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	< 0.1 hPa ; 20 °C
Solubility	water ; 40 mg/l ; 25 °C ; insoluble
Relative density	0.96 ; 20 °C ; EU Method A.3
Decomposition temperature	> 250 °C
Auto-ignition temperature	401 °C ; EU Method A.15
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	11 ; 50 % ; 25 °C

## 9.2 Other information:

Surface tension	0.063-0.068 N/m ; EU Method A.5
Absolute density	960 kg/m <sup>3</sup> ; 20 °C ; EU Method A.3

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Temperature above flashpoint: higher fire/explosion hazard. Substance has basic reaction.

### 10.2 Chemical stability:

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions:

No data available.

### 10.4 Conditions to avoid:

Keep away from ignition sources/sparks.

### 10.5 Incompatible materials:

Oxidizing agents, (strong) acids, (strong) bases.

### 10.6 Hazardous decomposition products:

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Test results

#### Acute toxicity

##### Raychem Brand S1005 Adhesive, Part B

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 423	>2000 mg/kg		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	>2000 mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation						Data waiving	

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

##### Raychem Brand S1005 Adhesive, Part B

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# Raychem Brand S1005 Adhesive, Part B

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	OECD 405	21 day(s)		Rabbit	Experimental value	
Skin	Irritating	OECD 439	60 minutes		Reconstructed human epidermis	Experimental value	

## Conclusion

Causes skin irritation.  
Causes serious eye damage.

## Respiratory or skin sensitisation

### Raychem Brand S1005 Adhesive, Part B

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 429			Mouse (female)	Experimental value	

## Conclusion

May cause an allergic skin reaction.

## Specific target organ toxicity

### Raychem Brand S1005 Adhesive, Part B

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 422	1000 mg/kg bw/day		No effect		Rat (male/female)	Experimental value
Dermal								Data waiving
Inhalation								Data waiving

## Conclusion

Not classified for subchronic toxicity

## Mutagenicity (in vitro)

### Raychem Brand S1005 Adhesive, Part B

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 487	Human lymphocytes	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria ( <i>S.typhimurium</i> )	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value

## Mutagenicity (in vivo)

### Raychem Brand S1005 Adhesive, Part B

No (test) data available

## Carcinogenicity

### Raychem Brand S1005 Adhesive, Part B

No (test) data available

## Reproductive toxicity

### Raychem Brand S1005 Adhesive, Part B

Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Effects on fertility	NOAEL	OECD 422	1000 mg/kg bw/day		No effect		Experimental value

## Conclusion CMR

Not classified for reprotoxic or developmental toxicity  
Not classified for mutagenic or genotoxic toxicity  
Not classified for carcinogenicity

## Toxicity other effects

### Raychem Brand S1005 Adhesive, Part B

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# Raychem Brand S1005 Adhesive, Part B

No (test)data available

## Chronic effects from short and long-term exposure

Raychem Brand S1005 Adhesive, Part B

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

## SECTION 12: Ecological information

### 12.1 Toxicity:

Raychem Brand S1005 Adhesive, Part B

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	7.07 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity invertebrates	EC50	OECD 202	7.07 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	4.34 mg/l	72 h	Pseudokirchneriella subcapitata	Static system		Experimental value; GLP
Toxicity aquatic micro-organisms	EC50	OECD 209	384 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; GLP

### Conclusion

Toxic to fishes

Toxic to invertebrates (Daphnia)

Toxic to algae

pH shift

Not harmful to activated sludge

Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability:

Raychem Brand S1005 Adhesive, Part B

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	70 %	74 day(s)	Read-across

### Conclusion

Not readily biodegradable in water

### 12.3 Bioaccumulative potential:

Raychem Brand S1005 Adhesive, Part B

#### BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF		77.4			QSAR
Log BCF		1.89			QSAR

#### Log Kow

Method	Remark	Value	Temperature	Value determination
		10.34		Calculated

### Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

### 12.4 Mobility in soil:

Raychem Brand S1005 Adhesive, Part B

#### (log) Koc

Parameter	Method	Value	Value determination
			No data available

### Conclusion

No (test)data on mobility of the substance available

### 12.5 Results of PBT and vPvB assessment:

Substance does not meet the criteria of PBT, nor the criteria of vPvB according to Annex XIII of Regulation (EC) No 1907/2006, so is neither PBT nor vPvB.

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# Raychem Brand S1005 Adhesive, Part B

## 12.6 Other adverse effects:

Raychem Brand S1005 Adhesive, Part B

### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006)

### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

### Ground water

Ground water pollutant

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1 Waste treatment methods:

#### 13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other dangerous substances). Depending on branch of industry and production process, also other waste 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.

#### 13.1.2 Disposal methods

Dissolve or mix with a combustible solvent. 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. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into the sewer.

#### 13.1.3 Packaging/Container

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

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR)

#### 14.1 UN number:

UN number	3082
-----------	------

#### 14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)
----------------------	---

#### 14.3 Transport hazard class(es):

Hazard identification number	90
Class	9
Classification code	M6

#### 14.4 Packing group:

Packing group	III
Labels	9

#### 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
--	-----

#### 14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

### Rail (RID)

#### 14.1 UN number:

UN number	3082
-----------	------

#### 14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)
----------------------	---

#### 14.3 Transport hazard class(es):

Hazard identification number	90
Class	9

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Revision number: 0600

Product number: 28648

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# Raychem Brand S1005 Adhesive, Part B

Classification code	M6
---------------------	----

## 14.4 Packing group:

Packing group	III
Labels	9

## 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
--	-----

## 14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Inland waterways (ADN)

### 14.1 UN number:

UN number	3082
-----------	------

### 14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)
----------------------	---

### 14.3 Transport hazard class(es):

Class	9
Classification code	M6

### 14.4 Packing group:

Packing group	III
Labels	9

### 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
--	-----

### 14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Sea (IMDG/IMSBC)

### 14.1 UN number:

UN number	3082
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### 14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)
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### 14.3 Transport hazard class(es):

Class	9
-------	---

### 14.4 Packing group:

Packing group	III
Labels	9

### 14.5 Environmental hazards:

Marine pollutant	P
Environmentally hazardous substance mark	yes

### 14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Annex II of MARPOL 73/78	
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## Air (ICAO-TI/IATA-DGR)

### 14.1 UN number:

UN number	3082
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### 14.2 UN proper shipping name:

# Raychem Brand S1005 Adhesive, Part B

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)
----------------------	---

## 14.3 Transport hazard class(es):

Class	9
-------	---

## 14.4 Packing group:

Packing group	III
Labels	9

## 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
--	-----

## 14.6 Special precautions for user:

Special provisions	A97
Special provisions	A158
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	30 kg G

## SECTION 15: Regulatory information

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

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
0 %	

REACH Annex XVII - Restriction

Subject to restrictions of 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.

The identified uses are not covered by restrictions of Annex XVII of Regulation (EC) No 1907/2006

#### National legislation The Netherlands

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 03
Waterbezwaarlijkheid	6

#### National legislation Germany

WGK	2; Classification water polluting based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 3)
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#### National legislation France

No data available

#### National legislation Belgium

No data available

#### Other relevant data

No data available

### 15.2 Chemical safety assessment:

A chemical safety assessment has been performed.

## SECTION 16: Other information

### Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

#### Labels



Irritant



Dangerous for the environment

#### R-phrases

38	Irritating to skin
41	Risk of serious damage to eyes
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

Reason for revision: 2,3, 11, 14

Publication date: 1999-07-11

Date of revision: 2014-09-11

Reference number: 3001BE

Revision number: 0600

Product number: 28648

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# Raychem Brand S1005 Adhesive, Part B

- 24 Avoid contact with skin  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
37/39 Wear suitable gloves and eye/face protection  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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

- R38 Irritating to skin  
R41 Risk of serious damage to eyes  
R43 May cause sensitisation by skin contact  
R51 Toxic to aquatic organisms  
R53 May cause long-term adverse effects in the aquatic environment

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

- H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.

(\*) = INTERNAL CLASSIFICATION BY BIG

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)

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