

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Holdtite R48

Revision 0
Revision date 2018-02-15

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

1.1. Product identifier

Product name	Holdtite R48
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC1] Adhesives, sealants;
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1.3. Details of the supplier of the safety data sheet

Company	Bondchem
Address	Unit 10 Lawson Street Dock Road Industrial Estate North Shields Tyne and Wear NE29 6TF
Web	www.bondchem.com
Telephone	+44 (0)191 2586990
Fax	+44 (0)191 2596853
Email	customerservice@bondchem.com
Email address of the competent person	customerservice@bondchem.com

1.4. Emergency telephone number


Emergency telephone number	+44(0)191 2586990
Company	Bondchem (Head Office) 24 hours (Diverted out of office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Skin Corr. 1B: H314; Skin Sens. 1: H317; STOT SE 3: H335;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H335 - May cause respiratory irritation.
Precautionary Statement: Prevention	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling.

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2.2. Label elements

Precautionary Statement: Response	P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of water/ . P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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/ . P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P321 - Specific treatment (see on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statement: Disposal	P405 - Store locked up. P501 - Dispose of contents/container to a hazardous waste collection point.

2.3. Other hazards

Other hazards	This product does not contain any substances classified as PBT or vPvB.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Cumene hydroperoxide	617-002-00-8	80-15-9	201-254-7	01-2119475796-19	1 - 10%	Org. Perox. EF: H242; Acute Tox. 3: H331; Acute Tox. 4: H312; Acute Tox. 4: H302; STOT RE 2: H373; Skin Corr. 1B: H314; Aquatic Chronic 2: H411;
Triethyleneglycol Dimethacrylate		109-16-0	203-652-6	01-2119969287-21	20 - 30%	Skin Sens. 1: H317;
2-Hydroxyethyl methacrylate	607-124-00-X	868-77-9	212-782-2	01-2119490169-29	20 - 30%	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317;
2-Methylpropenoic acid (Methacrylic acid)	607-088-00-5	79-41-4	201-204-4	01-2119463884-26	1 - 10%	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1A: H314;
2-(1-(2-Hydroxy-3,5-di-tert-pentyl-phenyl)ethyl)-4,6-di-tert-pentylphenyl acrylate	607-323-00-1	123968-25-2	413-850-6		1 - 10%	Aquatic Chronic 4: H413;
Cumene	601-024-00-X	98-82-8	202-704-5		0 - 0.5%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; STOT SE 3: H335; Aquatic Chronic 2: H411;
Acid Saccharin		81-07-2	201-321-0		1 - 10%	
1-Acetyl-2-Phenylhydrazine		114-83-0			0 - 0.5%	Acute Tox. 3: H301; Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; STOT SE 3: H335;
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)		128-37-0	204-881-4	01-2119555270-46	0 - 0.5%	Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Keep affected person warm and at
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4.1. Description of first aid measures

Eye contact	rest. get medical attention immediately. Remove the affected person from the source of contamination immediately. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Immediate medical attention is required.
Skin contact	Remove the affected person from the source of contamination immediately. Remove contaminated clothing. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Move the exposed person to fresh air. Keep the affected person warm and at rest. If swallowed, seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Inhalation of vapour may cause shortness of breath.
Eye contact	May cause irritation to eyes. May cause irritation to mucous membranes.
Skin contact	Irritating to skin.
Ingestion	Ingestion causes burns to the respiratory tract.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.
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5.2. Special hazards arising from the substance or mixture

	Corrosive. . Burning produces irritating, toxic and obnoxious fumes. Vapour may travel considerable distance to source of ignition and flash back.
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5.3. Advice for firefighters

	Self-contained breathing apparatus. Wear protective clothing. In case of fire and/or explosion do not breathe fumes. Control run off water by containing and keeping it out of sewers and watercourses.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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6.4. Reference to other sections

	Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind, keeping bystanders also upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak side up to prevent escape of liquid.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
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7.3. Specific end use(s)

Industrial use resulting in manufacture of another substance (use of intermediates). Industrial uses:
Uses of substances as such or in preparations at industrial sites.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

2-Methylpropenoic acid (Methacrylic acid)	WEL 8-hr limit ppm: 20	WEL 8-hr limit mg/m3: 72
	WEL 15 min limit ppm: 40	WEL 15 min limit mg/m3: 143
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:
Acid Saccharin	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3:
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:
	WEL 8-hr limit mg/m3 total inhalable dust:	WEL 15 min limit mg/m3 total inhalable dust:
	WEL 8-hr limit mg/m3 total 10 respirable dust:	WEL 15 min limit mg/m3 total respirable dust:
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:
Cumene	WEL 8-hr limit ppm: 25	WEL 8-hr limit mg/m3: 125
	WEL 15 min limit ppm: 50	WEL 15 min limit mg/m3: 250
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:

DNEL: Derived no-effect level.

Exposure Pattern - Workers

Butylated Hydroxytoluene	Long-term - inhalation - Local 5.8 mg/m ³ effects
	Long-term - dermal - Systemic 8.3 mg/kg effects

Exposure Pattern - General population

Butylated Hydroxytoluene	Long-term - inhalation - Systemic 1.74 mg/m ³ effects
	Long-term - dermal - Systemic 5 mg/kg effects

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash immediately with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational

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8.2. Exposure controls

Eye / face protection Skin protection - Handprotection Respiratory protection	exposure limit. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
	Approved safety goggles. Face shield. Provide eye wash station.
	Chemical resistant gloves (PVC).
	In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Green
Odour	Characteristic
pH	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Relative density	> 1.12
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	> 600 mPas (Cone & Plate)
Explosive properties	No data available
Oxidising properties	No data available
Solubility	No data available

9.2. Other information

Conductivity	No data available
Surface tension	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

	Avoid contact with:.. Copper and its alloys. Peroxides. Strong acids.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	If product is contaminated and becomes unstable the product may polymerize and produce an exothermic reaction.
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10.4. Conditions to avoid

	Keep away from strong acids, alkalis and organic peroxides/hydroperoxides. Heat. Keep only in the original container at a temperature not exceeding 15 °C.
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10.5. Incompatible materials

	Alkalis. Strong acids. Strong oxidising agents. Copper and its alloys.
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10.6. Hazardous decomposition products

	Burning produces irritating, toxic and obnoxious fumes.
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SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Skin corrosion/irritation	Causes burns.
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11.1.4. Toxicological Information

1-Acetyl-2-Phenylhydrazine	Oral Mouse LD50: 270mg/kg	
2-Hydroxyethyl methacrylate	Dermal Rat LD50: >5000mg/kg	Oral Rat LD50: >5000mg/kg
2-Methylpropenoic acid	Oral Rat LD50: 1320mg/kg	Dermal Rabbit LD50: 500mg/kg
Acid Saccharin	Oral Rat LD50: 14200mg/kg	
Butylated Hydroxytoluene	Oral Rat LD50: 1700mg/kg	Oral Mouse LD50: 800-1600mg/kg
	Dermal Guinea Pig LD50: >8000mg/kg	
Cumene	Dermal Rat LD50: 12.3mg/kg	Oral Rat LD50: 2910mg/kg
Cumene hydroperoxide	Inhalation Rat LC50/4 h: 220ppm	Oral Rat LD50: 382mg/kg
Triethyleneglycol Dimethacrylate	Oral Mouse LD50: >200mg/kg body weight	

11.1.13. Other information

	Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.
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SECTION 12: Ecological information

12.1. Toxicity

2-Hydroxyethyl methacrylate	Algae IC50/72h: 836.0000 mg/l	Fish LC50/96h: 100.0000 mg/l
2-Methylpropenoic acid	Daphnia EC50/48h: 130.0000 mg/l	Rainbow trout LC50/96h: 85mg/l
Butylated Hydroxytoluene	Daphnia EC50/48h: 0.6100 mg/l Fish LC50/96h: 0.5700 mg/l NOEC / EC10 for marine or -0.3160 mg/l freshwater organisms	Algae IC50/72h: 0.4000 mg/l
Cumene	Fish LC50/96h: 6.3200 mg/l	
Cumene hydroperoxide	Fish LC50/96h: 3.9000 mg/l	
Triethyleneglycol Dimethacrylate	Daphnia EC50/48h: 100.0000 mg/l	Fish LC50/96h: 16.4 mg/l

	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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12.2. Persistence and degradability

	The product is potentially degradable.
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12.3. Bioaccumulative potential

	No data is available on this product.
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Partition coefficient

	AR17 No data available
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12.4. Mobility in soil

	No data is available on this product.
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12.5. Results of PBT and vPvB assessment

	This product does not contain any substances classified as PBT or vPvB.
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12.6. Other adverse effects

	May cause long-term adverse effects in the environment.
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SECTION 13: Disposal considerations

General information

	Dispose of in compliance with all local and national regulations.
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SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

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

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

SECTION 16: Other information

Other information

Text of Hazard Statements in Section 3

Org. Perox. EF: H242 - Heating may cause a fire.
 Acute Tox. 4: H302 - Harmful if swallowed.
 Acute Tox. 4: H312 - Harmful in contact with skin.
 Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
 Skin Irrit. 2: H315 - Causes skin irritation.
 Eye Dam. 1: H318 - Causes serious eye damage.
 Eye Irrit. 2: H319 - Causes serious eye irritation.
 Acute Tox. 3: H331 - Toxic if inhaled.
 STOT SE 3: H335 - May cause respiratory irritation.
 STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .
 Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
 Skin Sens. 1: H317 - May cause an allergic skin reaction.
 Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin
 Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
 Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life.
 Flam. Liq. 3: H226 - Flammable liquid and vapour.
 Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
 Aquatic Acute 1: H400 - Very toxic to aquatic life.

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Other information

	Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
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Further information

	<p>The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.</p>
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