

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Holdtite T22

Revision 2
Revision date 2018-03-01

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

1.1. Product identifier

Product name	Holdtite T22
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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 Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; STOT SE 3: H335;
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2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation.
Precautionary Statement: Prevention	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.
	P302+P352 - IF ON SKIN: Wash with plenty of water/ . 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. P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.
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 hazardous waste area.

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	0.5 - 1%	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;
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;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Remove casualty from exposure ensuring one's own safety whilst doing so. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Keep the affected person warm and at rest. Rinse mouth thoroughly. Drink 1 to 2 glasses of water. Seek medical attention.

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

Eye contact	Irritating to eyes.
Skin contact	Irritating to skin. Eczema. Itching.
Ingestion	Ingestion may cause nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

	Remove the affected person from the source of contamination immediately. Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	In case of fire and/or explosion do not breathe fumes. Wear: Protective equipment. Self-contained breathing apparatus. Cool fire exposed containers with waterspray.
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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. 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

	Wear suitable protective clothing, gloves and eye/face protection. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Dispose of this material and its container to hazardous or special waste collection point. Wash hands after handling the product.
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6.4. Reference to other sections

	SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

	Avoid contact with eyes and skin. Wear suitable protective clothing and gloves. Wear eye/face protection. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing. Do not eat, drink or smoke in areas where this product is used or stored. Wash hands after handling the product.
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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. Keep away from food, drink and animal feedingstuffs. Keep away from heat.
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7.3. Specific end use(s)

	Refer to Section 1.2.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.1.1. Exposure Limit Values**

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8.1.1. Exposure Limit Values

Acid Saccharin	WEL 8-hr limit ppm: WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total inhalable dust: WEL 8-hr limit mg/m3 total respirable dust: 10	WEL 8-hr limit mg/m3: WEL 15 min limit mg/m3: WEL 15 min limit mg/m3 total inhalable 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 15 min limit ppm: - WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
Cumene	WEL 8-hr limit ppm: 25 WEL 15 min limit ppm: 50 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 125 WEL 15 min limit mg/m3: 250 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
Silicone Dioxide	WEL 8-hr limit ppm: WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total inhalable dust: 6 WEL 8-hr limit mg/m3 total respirable dust: 2.4	WEL 8-hr limit mg/m3: WEL 15 min limit mg/m3: WEL 15 min limit mg/m3 total inhalable dust: WEL 15 min limit mg/m3 total respirable dust:

DNEL: Derived no-effect level.



Exposure Pattern - Workers

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

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

	 
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area. Eye wash bottle with water.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles. In case of splashing, wear: Face shield.
Skin protection - Handprotection	Wear suitable gloves. Chemical resistant gloves (PVC). Polyvinyl chloride - PVC (Thickness 0.2mm for periods of 1 - 4 hours. Consult with glove manufacturer for breakthrough times.).
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. For short periods of work a combination of charcoal filter and particulate filter is suitable. Suitable half mask respirator with

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8.2. Exposure controls

8.2.3. Environmental exposure controls	filter P2 (EN 143).
	Not normally required.
	Wash hands at the end of each shift and before eating, smoking and using the toilet. Wash skin promptly if skin becomes contaminated. Promptly remove any clothing that has become contaminated.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Violet
Odour	Characteristic
pH	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Relative density	> 1.12 (H ₂ O = 1 @ 20 °C)
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	> 900 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

	Heat. Keep only in the original container at a temperature not exceeding 15 °C.
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10.5. Incompatible materials

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

	Burning produces irritating, toxic and obnoxious fumes. Stable under normal conditions.
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SECTION 11: Toxicological information

11.1.4. Toxicological Information

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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
Acid Saccharin	Oral Rat LD50: 14200mg/kg	
Butylated Hydroxytoluene	Oral Rat LD50: 1700mg/kg Dermal Guinea Pig LD50: >8000mg/kg	Oral Mouse LD50: 800-1600mg/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
Silicone Dioxide	Oral Rat LD50: >5000mg/kg Inhalation Rat LC50/4 h: >0.139mg/L	Dermal Rabbit LD50: >2000mg/kg
Triethyleneglycol Dimethacrylate	Oral Mouse LD50: >200mg/kg body weight	

SECTION 12: Ecological information

12.1. Toxicity

2-Hydroxyethyl methacrylate	Algae IC50/72h: 836.0000 mg/l	Fish LC50/96h: 100.0000 mg/l
Butylated Hydroxytoluene	Daphnia EC50/48h: 0.6100 mg/l Fish LC50/96h: 0.5700 mg/l NOEC / EC10 for marine or freshwater organisms: -0.3160 mg/l	Algae IC50/72h: 0.4000 mg/l
Cumene	Fish LC50/96h: 6.3200 mg/l	
Cumene hydroperoxide	Fish LC50/96h: 3.9000 mg/l	
Silicone Dioxide	Daphnia EC50/48h: 10000.0000 mg/l Daphnia LC50/24h: >10000mg/l	Fish LC50/96h: 10000.0000 mg/l Fathead minnows LC50/96h: >10000mg/l
Triethyleneglycol Dimethacrylate	Daphnia EC50/48h: 100.0000 mg/l	Fish LC50/96h: 16.4 mg/l

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Does not bioaccumulate.

Partition coefficient

Holdtite T22 No data available

12.4. Mobility in soil

Immiscible in water.

12.5. Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

None.

SECTION 13: Disposal considerations

General information

Wear protective gloves/protective clothing/eye protection/face protection. Dispose of in compliance with all local and national regulations.

Disposal methods

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Dispose of this material and its container to hazardous or special waste collection point.

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Disposal of packaging

Empty containers can be sent for disposal or recycling.

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

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. REGULATION (EC) No 1272/2008 of 16th December 2008 on Classification, Labelling and Packaging of substances and mixtures. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No Chemical safety assessment has been conducted on this product.

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas: 2 - Precautionary Statement: Disposal.
Acronyms	BCF: Bioconcentration factor. Biochemical oxygen demand. COD: Chemical oxygen demand. DMEL: Derived minimal effect level. DNEL: Derived no-effect level. PNEC: Predicted no-effect concentration.
Data sources	European Chemical Agency.(ECHA).
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.

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Other information

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.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Further information

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.