

SAFETY DATA SHEET

Retainer

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

1.1. Product identifier

Product name Retainer

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

Identified uses PC1 Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

Supplier Aztec Chemicals
Unit 16, University Way
Orion Park
Crewe
Cheshire
CW1 6NG
+ 44 (0) 1270 655500 (T)
+ 44 (0) 1270 655501 (F)
info@aztecchemicals.com

1.4. Emergency telephone number

Emergency telephone +44 (0)7831 300868

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Not Classified

Human health Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary statements P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 Get medical advice/ attention.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with local regulations.

Contains Isobutyl methacrylate, 2-HYDROXYETHYL METHACRYLATE

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Supplementary precautionary statements

P261 Avoid breathing vapour/ spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

4-Tert-Butylcyclohexyl Methacrylate	5-10%
CAS number: 46729-07-1	REACH registration number: N/A
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335	
2-HYDROXYETHYL METHACRYLATE	5-10%
CAS number: 868-77-9	EC number: 212-782-2
REACH registration number: 01-2119490169-29	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	
Isobutyl methacrylate	5-10%
CAS number: 97-86-9	EC number: 202-613-0
REACH registration number: 01-2119488331-38	
M factor (Acute) = 1	
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400	

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CUMENE HYDROPEROXIDE			<1%
CAS number: 80-15-9	EC number: 201-254-7	REACH registration number: 01-2119475796-19	
Classification Org. Perox. E - H242 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT RE 2 - H373 Aquatic Chronic 2 - H411			

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Never give anything by mouth to an unconscious person.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Do not induce vomiting. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention. Follow precautions for safe handling described in this safety data sheet.
Ingestion	Water may be given to wash out the mouth if the person is conscious and not convulsing. Seek medical advice if necessary.
Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. DO NOT use solvents or thinners as skin cleaning agents Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention. Show this Safety Data Sheet to the medical personnel.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Severe irritation of nose and throat. Coughing, chest tightness, feeling of chest pressure.
Ingestion	There may be soreness and redness of the mouth and throat.
Skin contact	Irritating and may cause redness and pain.
Eye contact	Irritation and redness, followed by blurred vision.

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

Notes for the doctor	Treat symptomatically. Immediate effects can be expected after short-term exposure.
Specific treatments	Provide eyewash station and safety shower.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

5.2. Special hazards arising from the substance or mixture

Specific hazards Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. If risk of water pollution occurs, notify appropriate authorities. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Avoid contact with skin and eyes.

Special protective equipment for firefighters Wear chemical protective suit. Use air-supplied respirator, gloves and protective goggles.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Keep unnecessary and unprotected personnel away from the spillage. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Bund storage facilities to prevent soil and water pollution in the event of spillage. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes. Contaminated rags and cloths must be put in fireproof containers for disposal. Avoid direct contact with the substance. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid the accumulation of vapours in low or confined areas. Avoid the formation of mists.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Retainer

Isobutyl methacrylate

Long-term exposure limit (8-hour TWA): WEL 300 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments SUP = Supplier's recommendation.

8.2. Exposure controls

Appropriate engineering controls Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Personal protection When using do not smoke

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

Other skin and body protection Provide eyewash station. Wear apron or protective clothing in case of contact.

Hygiene measures Use engineering controls to reduce air contamination to permissible exposure level. Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Self-containing breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmosphere. Air purifiers respirators will not provide protection. Users of breathing apparatus must be trained.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Yellow.
Odour	Sweetish.
Vapour density	Not determined.
Relative density	1.033
Solubility(ies)	Insoluble in water.
Viscosity	Viscous liquid.

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable at normal ambient temperatures and when used as recommended.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

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Possibility of hazardous reactions Does not decompose when used and stored as recommended.

10.4. Conditions to avoid

Conditions to avoid Avoid heat. Avoid contact with the following materials: Strong oxidising agents.

10.5. Incompatible materials

Materials to avoid Keep away from oxidising materials, heat and flames. Acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (gases ppm) 77,777.78

ATE inhalation (vapours mg/l) 333.33

ATE inhalation (dusts/mists mg/l) 55.56

Inhalation Irritating to respiratory system. Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure. Wheezing/breathing difficulties.

Ingestion Liquid irritates mucous membranes and may cause abdominal pain if swallowed. There may be soreness and redness of the mouth and throat.

Skin contact Irritating to skin. Redness.

Eye contact Irritation and redness, followed by blurred vision.

Toxicological information on ingredients.

Isobutyl methacrylate

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 29.7

Species Mouse

ATE inhalation (vapours mg/l) 29.7

CUMENE HYDROPEROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 382.0

Species Rat

ATE oral (mg/kg) 382.0

SECTION 12: Ecological Information

Retainer

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Not available.

Ecological information on ingredients.

2-HYDROXYETHYL METHACRYLATE

Acute toxicity - fish	LC ₅₀ , 96 hours: >100 mg/l, Oryzias latipes (Red killifish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 380 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 836 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC ₅₀ , 16 hours: >3000 mg/l, Pseudomonas fluorescens

Isobutyl methacrylate

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 20 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >29 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 16 mg/l, Selenastrum capricornutum

12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioconcentration potential is low.

12.4. Mobility in soil

Mobility Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Negligible ecotoxicity.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

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Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.

Guidance Workplace Exposure Limits EH40.
CHIP for everyone HSG228.
Safety Data Sheets for Substances and Preparations.
Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments Supplemental information added.

Revision date 05/07/2017

Revision 2

SDS number 10497

Retainer

SDS status

Approved.

Hazard statements in full

H226 Flammable liquid and vapour.

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.