

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

- **1.1 Product identifier**
- **Trade name:** **TB 1110H**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category** PC1 Adhesives, sealants
- **Application of the substance / the mixture** Sealant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** THREE BOND EUROPE S.A.S TEL : 33 (0)1 34 32 39 60
B.P 9105
95073 CERGY PONTOISE FAX : 33 (0)1 34 32 39 61
FRANCE
- **Information department:** Three Bond Europe H&S department : msds@threebond.fr
Site : http://quickfds.com
- **1.4 Emergency telephone number:** ORFILA (France) - Tel : +33 (0)1 45 42 59 59 (24h)
Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24)
EU Tel : 112

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
R53: May cause long-term adverse effects in the aquatic environment.
- **Information concerning particular hazards for human and environment:** The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:** The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** H413 May cause long lasting harmful effects to aquatic life.
- **Precautionary statements** P280 Wear protective gloves.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:** Contains 2-hydroxyethyl methacrylate. May produce an allergic reaction.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

GB

(Contd. on page 2)

Trade name: TB 1110H

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 41637-38-1 EC number: 609-946-4 Reg.nr.: 01-2119980659-17-XXXX	Dimethacrylate de Bisphenol A Ethoxyle R53 ----- Aquatic Chronic 4, H413	50-100%
CAS: 3290-92-4 EINECS: 221-950-4 Reg.nr.: 01-2119542176-41-XXXX	propylidynetrimethyl trimethacrylate N R51/53 ----- Aquatic Chronic 2, H411	1-<2.5%
CAS: 80-15-9 EINECS: 201-254-7 Reg.nr.: 01-2119475796-19-XXXX	α,α -dimethylbenzyl hydroperoxide T R23; C R34; Xn R21/22-48/20/22; O R7; N R51/53 ----- Org. Perox. EF, H242; Acute Tox. 3, H331; STOT RE 2, H373; Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312	0.5-<1%
CAS: 868-77-9 EINECS: 212-782-2 Reg.nr.: 01-2119490169-29-XXXX	2-hydroxyethyl methacrylate Xi R36/38; Xi R43 ----- Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	0.1-<0.3%

- SVHC

None

- Additional information

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- After inhalation

 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.

- After skin contact

If skin irritation continues, consult a doctor.

- After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

- After swallowing

 Do not induce vomiting; call for medical help immediately.
Induce vomiting, only if affected person is fully conscious.
A person vomiting while lying on their back should be turned onto their side.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents

 CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
Use fire fighting measures that suit the environment.

(Contd. on page 3)

GB

Trade name: TB 1110H

(Contd. of page 2)

- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters

- Protective equipment:

Wear fully protective suit.
Mount respiratory protective device.

- Additional information

Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Wear protective clothing.

- 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.
Absorb liquid components with liquid-binding material.

- 6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires:

No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage

- Requirements to be met by storerooms and receptacles:

Store in a cool location.
Use only receptacles specifically permitted for this substance/product.

- Information about storage in one common storage facility:

Store away from reducing agents.
Do not store together with oxidising and acidic materials.

- Further information about storage conditions:

Protect from heat and direct sunlight.

- 7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical systems:

No further data; see item 7.

(Contd. on page 4)

GB

Trade name: TB 1110H

(Contd. of page 3)

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:** *The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*
- **Additional information:** *The lists that were valid during the creation were used as basis.*
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** *The usual precautionary measures should be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.*
- **Breathing equipment:** *Use suitable respiratory protective device in case of insufficient ventilation.*
- **Protection of hands:**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves** *Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.*
- **Penetration time of glove material** *The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- **Eye protection:** *Safety glasses*
- **Body protection:** *Protective work clothing.*

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form:	<i>Pasty</i>
Colour:	<i>White</i>
Odour:	<i>Characteristic</i>

- Change in condition

Melting point/Melting range: *Not applicable*

Boiling point/Boiling range: *Not applicable*

- **Flash point:** *> 100 °C*

- **Flammability (solid, gaseous)** *Not applicable.*

- **Self igniting:** *Product is not selfigniting.*

- **Danger of explosion:** *Product does not present an explosion hazard.*

- **Vapour pressure:** *Not determined.*

- **Density at 25 °C:** *1.1*

- **Evaporation rate** *Not determined.*

- Solubility in / Miscibility with

Water: *Not miscible or difficult to mix*

(Contd. on page 5)

GB

Printing date 15.06.2015

Version number 3

Revision: 15.06.2015

Trade name: TB 1110H

(Contd. of page 4)

- **Viscosity:**
 dynamic at 25 °C: 35000 mPas (-)
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
 - Exothermic polymerization
 - Reacts with various metals
 - Reacts with peroxides
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

 - **LD/LC50 values that are relevant for classification:**
41637-38-1 Dimethacrylate de Bisphenol A Ethoxyle

Oral	LD50	> 2000 mg/kg (rat) (OCDE Ligne Directrice 423)
Dermal	LD50	> 2000 mg/kg (rat) (OCDE Ligne directrice 402)

24937-93-7 Polyester de l'acide adipique

Oral	LD50	> 15000 mg/kg (Rat)
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3290-92-4 propylidynetrimehyl trimethacrylate

Oral	LD50	> 2000 mg/kg (rat) (OCDE Ligne directrice 423)
Dermal	LD50	> 2000 mg/kg (rat) (OCDE Ligne directrice 402)

80-15-9 α,α -dimethylbenzyl hydroperoxide

Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)

868-77-9 2-hydroxyethyl methacrylate

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.

(Contd. on page 6)

GB

Trade name: TB 1110H

(Contd. of page 5)

- **Other information:** *The product is difficultly biodegradable.*
- **12.3 Bioaccumulative potential** *No further relevant information available.*
- **12.4 Mobility in soil** *No further relevant information available.*
- **Additional ecological information:**
- **General notes:** *Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **12.6 Other adverse effects** *No further relevant information available.*

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** *Must be specially treated adhering to official regulations.*
 *Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations. Dispose of packaging according to regulations on the disposal of packagings.*

SECTION 14: Transport information

- | | |
|---|---|
| - 14.1 UN-Number | |
| - ADR, ADN, IMDG, IATA | Void |
| - 14.2 UN proper shipping name | |
| - ADR, ADN, IMDG, IATA | Void |
| - 14.3 Transport hazard class(es) | |
| - ADR, ADN, IMDG, IATA | |
| - Class | Void |
| - 14.4 Packing group | |
| - ADR, IMDG, IATA | Void |
| - 14.5 Environmental hazards: | |
| - Marine pollutant: | No |
| - 14.6 Special precautions for user | <i>Not applicable.</i> |
| - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | <i>Not applicable.</i> |
| - Transport/Additional information: | <i>Not dangerous according to the above specifications.</i> |
| - UN "Model Regulation": | - |

GB

(Contd. on page 7)

Trade name: TB 1110H

(Contd. of page 6)

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*
- **National regulations**
- **Water hazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

	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.
	H319	Causes serious eye irritation.
	H331	Toxic if inhaled.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H411	Toxic to aquatic life with long lasting effects.
	H413	May cause long lasting harmful effects to aquatic life.
	R21/22	Harmful in contact with skin and if swallowed.
	R23	Toxic by inhalation.
	R34	Causes burns.
	R36/38	Irritating to eyes and skin.
	R43	May cause sensitisation by skin contact.
	R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R53	May cause long-term adverse effects in the aquatic environment.
	R7	May cause fire.
- **Abbreviations and acronyms:**
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*
 - ICAO: International Civil Aviation Organisation*
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*
 - IMDG: International Maritime Code for Dangerous Goods*
 - IATA: International Air Transport Association*
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals*
 - EINECS: European Inventory of Existing Commercial Chemical Substances*
 - ELINCS: European List of Notified Chemical Substances*
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)*
 - LC50: Lethal concentration, 50 percent*
 - LD50: Lethal dose, 50 percent*
 - Org. Perox. EF: Organic Peroxides, Types E, F*

(Contd. on page 8)

GB

Printing date 15.06.2015

Version number 3

Revision: 15.06.2015

Trade name: TB 1110H

(Contd. of page 7)

Acute Tox. 4: Acute toxicity, Hazard Category 4
Acute Tox. 3: Acute toxicity, Hazard Category 3
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

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