

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

- 1.1 Product identifier

- Trade name: **TB 3114**

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

No further relevant information available.

- Application of the substance / the mixture

Epoxy resin

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

THREE BOND EUROPE S.A.S
B.P 9105
95073 CERGY PONTOISE
FRANCE

TEL : 33 (0)1 34 32 39 60

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- Information department:

Three Bond Europe H&S department : msds@threebond.fr
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- 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)
UE Tel : 112

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2

H319 Causes serious eye irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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



Xi; Irritant

R36/38: Irritating to eyes and skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.

R52/53: Harmful to aquatic organisms, 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 EU guidelines:

The product has been marked in accordance with EU Directives / respective national laws.

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- Code letter and hazard designation of product:

Xi Irritant
- Hazard-determining components of labelling:
*Hydrogenated bisphenol A diglycidyl ether
2-hydroxy-2-methylpropiophenone*
- Risk phrases:
*36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- Safety phrases:
*24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of soap and water.
37 Wear suitable gloves.
60 This material and its container must be disposed of as hazardous waste.*
- Special labelling of certain preparations:
Contains epoxy constituents. See information supplied by the manufacturer.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: *Not applicable.*
- vPvB: *Not applicable.*

SECTION 3: Composition/information on ingredients

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

CAS: 13410-58-7 EINECS: 236-502-3	Hydrogenated bisphenol A diglycidyl ether Xi R36/38; Xi R43 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 7473-98-5 EINECS: 231-272-0	2-hydroxy-2-methylpropiophenone Xn R22; Xi R43; N R50/53 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	1-2.5%

- 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 *Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.*
- After eye contact *Rinse opened eye for several minutes under running water. Then consult a doctor.*

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- **After swallowing** *Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
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.*
- **5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Wear self-contained respiratory protective device.*
- **Additional information** *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** *Particular danger of slipping on leaked/spilled product.
Ensure adequate ventilation
Wear protective clothing.*
- **6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.
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.*
- **6.3 Methods and material for containment and cleaning up:** *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** *Keep away from heat and direct sunlight.*
- **Information about protection against explosions and fires:** *No special measures required.*

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- 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 oxidising agents.

Do not store together with alkalis (caustic solutions).

- Further information about

storage conditions:

Protect from exposure to the light.

- 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.

- 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.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

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.

Nitrile, latex

The glove material has to be impermeable and
resistant to the product/ the substance/ the
preparation.

- Material of gloves

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.

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SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form:	Viscous
Colour:	Light grey
- Odour:	Characteristic

- Change in condition

Melting point/Melting range:	undetermined
Boiling point/Boiling range:	Not applicable

- Flash point: > 100 °C

- Self igniting: Product is not selfigniting.

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

- Vapour pressure: Not determined.

- Density at 25 °C: 1.54 g/cm³

- Solubility in / Miscibility with

Water: Not miscible or difficult to mix

- Viscosity:

dynamic at 25 °C: 26000 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 according to specifications.

- 10.3 Possibility of hazardous reactions

No dangerous reactions known

- 10.4 Conditions to avoid

No further relevant information available.

- 10.5 Incompatible materials:

No further relevant information available.

- 10.6 Hazardous

decomposition products:

No dangerous decomposition products known

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

7473-98-5 2-hydroxy-2-methylpropiophenone

Oral	LD50	1700 mg/kg (rat)
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- Primary irritant effect:

- on the skin:

Irritant to skin and mucous membranes.

- on the eye:

Irritating effect.

- Sensitisation:

Sensitisation possible through skin contact.

- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:


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Irritant


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SECTION 12: Ecological information

- **12.1 Toxicity**
 - **Aquatic toxicity:** *No further relevant information available.*
 - **12.2 Persistence and degradability** *No further relevant information available.*
 - **12.3 Bioaccumulative potential** *No further relevant information available.*
 - **12.4 Mobility in soil** *No further relevant information available.*
 - **Remark:** *Harmful to fish*
 - **Additional ecological information:**
 - **General notes:** *Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.*
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Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.*
- Harmful to aquatic organisms*
- **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.*
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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.*

SECTION 14: Transport information

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|--|------|
| - 14.1 UN-Number | Void |
| - ADR, ADN, IMDG, IATA | Void |
| - 14.2 UN proper shipping name | Void |
| - ADR, ADN, IMDG, IATA | Void |
| - 14.3 Transport hazard class(es) | Void |
| - ADR, ADN, IMDG, IATA | Void |
| - Class | Void |
| - 14.4 Packing group | Void |
| - ADR, IMDG, IATA | Void |
| - 14.5 Environmental hazards: | No |
| - Marine pollutant: | No |

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|--|-----------------|
| - 14.6 Special precautions for user | Not applicable. |
| - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| - UN "Model Regulation": | - |

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Water hazard class: Water hazard class 2 (Self-assessment): 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**
 - H302 Harmful if swallowed.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
 - R22 Harmful if swallowed.
 - R36/38 Irritating to eyes and skin.
 - R43 May cause sensitisation by skin contact.
 - R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **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)
 - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 - ICAO: International Civil Aviation Organisation
 - ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
 - 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
 - Acute Tox. 4: Acute toxicity, Hazard Category 4
 - 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
 - Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
 - Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
 - Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3