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

- 1.1 Product identifier

- Trade name: <u>TB 2273D (< 5 L)</u>

- 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 Epoxy resin

- 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



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



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.

STOT SE 3 H335 May cause respiratory irritation.

- 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



GHS07 GHS09

- Signal word Warning

- Hazard-determining

components of labelling: bisphenol F-(epichlorhydrin); epoxy resin(number average

molecular weight < 700)

Butyl Acrylate-methyl methacrylate-Methacrylic Acid polymer

- **Hazard statements** H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

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- Precautionary statements P261 Avoid breathing fume.

> P273 Avoid release to the environment. P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and

water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance

with local/regional/national/international

regulations.

- Additional information: Contains epoxy constituents. May produce an allergic reaction.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable. - vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

P501

- 3.2 Mixtures

- Description: Mixture of the substances listed below with nonhazardous

additions.

- Dangerous components:		
CAS: 9003-36-5 NLP: 500-006-8	bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight < 700)	50-100%
Reg.nr.: 01-2119454392-40-XXXX	Aquatic Chronic 2, H411; () Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 25035-69-2	Butyl Acrylate-methyl methacrylate-Methacrylic Acid polymer	10-25%
	♣ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: 01-2119456619-26-XXXX	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	5-<10%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 134091-76-2	reaction product of an epoxy, an imidazole and a carboxylic acid	1-2.5%
	Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	0.1-0.5%
EINECS: 219-784-2	♦ Acute Tox. 3, H331; ♦ Eye Dam. 1, H318	

- SVHC None

- Additional information For the wording of the listed hazard 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 Do not induce vomiting; call for medical help immediately.

A person vomiting while lying on their back should be turned onto

their side.

Induce vomiting, only if affected person is fully conscious.

- 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

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

fire.

Carbon monoxide (CO)

- 5.3 Advice for firefighters

- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

- Additional information

Collect contaminated fire fighting water separately. It must not

enter the sewage system.

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:

Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

- 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.

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SECTION 7: Handling and storage

- 7.1 Precautions for safe

handling Keep away from heat and direct sunlight.

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: Do not store together with oxidising and acidic materials.

Store away from reducing agents.

Do not store together with alkalis (caustic solutions).

- Further information about storage conditions:- 7.3 Specific end use(s)

Protect from heat and direct sunlight. 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. The lists that were valid during the creation were used as basis.

Additional information: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:

Protecti

Protective gloves.

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.

Nitrile rubber, NBR

- Penetration time of glove

material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Safety glasses

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- **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: Pasty
Colour: White
- Odour: Characteristic

- Change in condition

Melting point/freezing point: Not determined Initial boiling point and boiling range: Not applicable

Flash point: Not applicable
 Flammability (solid, gaseous) Not applicable.

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

- Explosive properties: Product does not present an explosion hazard.

- **Density at 25 ℃:** 1.2

- Solubility in / Miscibility with

Water: Not miscible or difficult to mix

- Viscosity:

dynamic at 25 °C: 70000 mPas

- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.

- 10.2 Chemical stability

- Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous

reactions

Danger of polymerization

Reacts with alkali, amines and strong acids

10.4 Conditions to avoid10.5 Incompatible materials:

No further relevant information available. 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 Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

9003-36-5 bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight < 700)

Oral LD50 > 5000 mg/kg (Rat)

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Oral LD50 > 2000 mg/kg (rat)

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- Primary irritant effect:

Skin corrosion/irritation Causes skin irritation.
 Serious eye damage/irritation Causes serious eye irritation.

- Respiratory or skin

sensitisation May cause an allergic skin reaction.

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

- STOT-single exposure May cause respiratory irritation.

- **STOT-repeated exposure**- **Aspiration hazard**Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

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: Toxic for fish

- Additional ecological information:

- General notes: Do not allow undiluted product or large quantities of it to reach

ground water, water course or sewage system. Also poisonous for fish and plankton in water bodies.

Toxic for 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.

X

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.
Packaging can be reused or recycled after cleaning.

GB

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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	Not applicable.	
 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.	
- UN "Model Regulation":	Void	

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.

- Seveso category E2 Hazardous to the Aquatic Environment

- Qualifying quantity (tonnes) for the application of lower-

tier requirements 200 t

- Qualifying quantity (tonnes) for the application of upper-

tier requirements 500 t

- 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** 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.

H411 Toxic to aquatic life with long lasting effects.

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- 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

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity - Category 3 Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic

hazard – Category 2