

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

- 1.1 Product identifier

- Trade name: **TB 2890D**

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

No further relevant information available.

- Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- Application of the substance / the mixture

Solvents
Cleaning agent/ Cleaner

- 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



GHS08 health hazard

Repr. 1B H360Df May damage the unborn child. Suspected of damaging fertility.

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



T; Toxic

R61: May cause harm to the unborn child.



Xn; Harmful

R62: Possible risk of impaired fertility.

- 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



GHS08

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- **Signal word** Danger
- **Hazard-determining components of labelling:** *bis(2-(2-methoxyethoxy)ethyl) ether*
- **Hazard statements** *H360Df May damage the unborn child. Suspected of damaging fertility.*
- **Precautionary statements**
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.*
 - P202 Do not handle until all safety precautions have been read and understood.*
 - P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.*
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Additional information:** *Restricted to professional users.*
- **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:** *Cleansing agent*

Dangerous components:

CAS: 143-24-8	<i>bis(2-(2-methoxyethoxy)ethyl) ether</i>	50-100%
EINECS: 205-594-7	 <i>T R61</i> ;  <i>Xn R62</i>	
Reg.nr.: 01-2119958965-16-XXXX	 <i>Repr. 1B, H360Df</i>	

- **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**
- **General information** *Immediately remove any clothing soiled by the product.*
- **After inhalation** *Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.*
- **After skin contact** *In case of unconsciousness place patient stably in side position for transportation.*
- **After eye contact** *Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.*
- **After swallowing** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing** *Rinse out mouth and then drink plenty of water. Induce vomiting and call for medical help. 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.*

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
 - CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
 - Foam
 - Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents**
 - Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**
 - In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information**
 - Use large quantities of foam as it is partially destroyed by the product.
 - 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.
 - Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - 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.

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:**
 - Keep respiratory protective device available.
- **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.

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- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
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.
- **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.


- DNELs

143-24-8 bis(2-(2-methoxyethoxy)ethyl) ether

Dermal	DNEL	3 mg/kg (Travailleur)
Inhalative	DNEL	22 mg/m ³ (Travailleur)

- **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.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves**

Nitrile rubber, NBR
Butyl rubber, BR
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 trough 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:	Fluid
Colour:	Colourless
- Odour:	Characteristic
- Change in condition	
Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	275 °C (OCDE 103)
- Flash point:	136 °C (92/69/CEE A.9 c.f)
- Flammability (solid, gaseous)	Not applicable.
- Ignition temperature:	270 °C (CE/440/2008 A.15)
- Self igniting:	Not applicable
- Danger of explosion:	Product does not present an explosion hazard.
- Vapour pressure at 20 °C:	0.099 Pa (OCDE 104)
- Density at 20 °C:	1.01 g/cm ³ (DIN 51757)
- Evaporation rate	Not determined.
- Solubility in / Miscibility with Water:	
	Not miscible or difficult to mix
- Partition coefficient (n-octanol/water) at 23 °C:	
	-0.84 log Kow (ph 7 - OCDE 105)
- Viscosity at 20 °C:	3.69 mm ² /s (OECD 114)
- dynamic at 20 °C:	3.73 mPas (OECD 114)
- 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:
143-24-8 bis(2-(2-methoxyethoxy)ethyl) ether

Oral	LD50	3850 mg/kg (rat) (OCDE 401)
Dermal	LD50	> 6900 mg/kg (rat) (OCDE 402)
Inhalative	LC0	11 mg/l (rat) (7h (IRT))

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- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **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:
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Repr. 1B

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

143-24-8 bis(2-(2-methoxyethoxy)ethyl) ether

CE10/3h	≥ 5000 mg/l (Microorganismes) (OCDE 209 Statique)
CE10/72h	2871 mg/l (Pseudokirchneriella subcapitata) (OCDE 201 Statique)
CE50/48h	7467 mg/l (daphnia) (OCDE 202 1ere part Statique)
CE50/72h	8996 mg/l (Pseudokirchneriella subcapitata) (OCDE 201 Statique)
LC50/96h	> 5000 mg/l (Brachydanio rerio) (OCDE 203 Statique)
NOEC/21j	320 mg/l (daphnia) (OCDE 211 semi-statique)

- **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.
- **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.

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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 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	
- 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	H360Df May damage the unborn child. Suspected of damaging fertility. R61 May cause harm to the unborn child. R62 Possible risk of impaired fertility.
- 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)

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*DNEL: Derived No-Effect Level (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**Repr. 1B: Reproductive toxicity, Hazard Category 1B***- * Data compared to the
previous version altered.**

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