

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

- **1.1 Product identifier**
- **Trade name:** TB 1796B
- **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
- **Application of the substance / the mixture** Activator
- **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**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **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**



GHS02 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**
- **Hazard statements**

propan-2-ol  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

- **Precautionary statements**
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing vapours.

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P280 Wear protective gloves / eye 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.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P403 Store in a well-ventilated place.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 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: 67-63-0<br>EINECS: 200-661-7<br>Reg.nr.: 01-2119457558-25-XXXX | propan-2-ol<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336   | 50-100%  |
| CAS: 99-97-8<br>EINECS: 202-805-4                                   | N,N-dimethyl-p-toluidine<br>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT RE 2, H373; Aquatic Chronic 3, H412 | 2.5-<10% |

- 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

- General information Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- 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.
- 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.

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- **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** Use fire fighting measures that suit the environment. CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **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 self-contained respiratory protective device. Wear fully protective suit.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Wear protective clothing.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course. Dilute with plenty of water. 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.

### 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 ignition sources away - Do not smoke. Protect against electrostatic charges.

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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:**

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.

**- 8.1 Control parameters**

**- Components with limit values that require monitoring at the workplace:**

**67-63-0 propan-2-ol**

WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm

Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

**- 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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

**- Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter AX.

**- Protection of hands:**



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 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:   | Fluid        |
| Colour: | Clear        |
| Odour:  | Alcohol-like |

##### - Change in condition

|  |          |
|--|----------|
| Melting point/freezing point:            | -89.5 °C |
| Initial boiling point and boiling range: | 82 °C    |

- Flash point: 13 °C

- Flammability (solid, gaseous) Not applicable.

- Ignition temperature: 425 °C

- Self igniting: Product is not selfigniting.

- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- Lower: 2 Vol %

- Upper: 12 Vol %

- Vapour pressure at 20 °C: 43 hPa

- Density at 25 °C: 0.786

- Evaporation rate Not determined.

##### - Solubility in / Miscibility with

Water: Fully miscible

##### - Viscosity:

dynamic at 25 °C: 3 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

Forms flammable gases / fumes

- 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

Based on available data, the classification criteria are not met.

#### - LD/LC50 values that are relevant for classification:

##### 67-63-0 propan-2-ol

|            |          |                   |
|------------|----------|-------------------|
| Oral       | LD50     | 4570 mg/kg (rat)  |
| Dermal     | LD50     | 13400 mg/kg (rab) |
| Inhalative | LC50/4 h | 30 mg/l (rat)     |

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- **Primary irritant effect:**
- **Skin corrosion/irritation**      *Based on available data, the classification criteria are not met.*
- **Serious eye damage/irritation**      *Causes serious eye irritation.*
- **Respiratory or skin sensitisation**      *Based on available data, the classification criteria are not met.*
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**      *Based on available data, the classification criteria are not met.*
- **Carcinogenicity**      *Based on available data, the classification criteria are not met.*
- **Reproductive toxicity**      *Based on available data, the classification criteria are not met.*
- **STOT-single exposure**      *May cause drowsiness or dizziness.*
- **STOT-repeated exposure**      *Based on available data, the classification criteria are not met.*
- **Aspiration hazard**      *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.*
- **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.*
- **Recommended cleansing agent:**      *Water, if necessary with cleansing agents.*

### SECTION 14: Transport information

- |                                       |                                      |
|---------------------------------------|--------------------------------------|
| - <b>14.1 UN-Number</b>               |                                      |
| - <b>ADR, IMDG, IATA</b>              | UN1219                               |
| - <b>14.2 UN proper shipping name</b> |                                      |
| - <b>ADR</b>                          | 1219 ISOPROPANOL (ISOPROPYL ALCOHOL) |
| - <b>IMDG, IATA</b>                   | ISOPROPANOL (ISOPROPYL ALCOHOL)      |

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**- 14.3 Transport hazard class(es)**

**- ADR**



**- Class** 3 (F1) Flammable liquids.  
**- Label** 3

**- IMDG, IATA**



**- Class** 3 Flammable liquids.  
**- Label** 3

**- 14.4 Packing group**

**- ADR, IMDG, IATA** II

**- 14.5 Environmental hazards:**

**- Marine pollutant:** No

**- 14.6 Special precautions for user**

**- Warning:** Flammable liquids.  
**- Danger code (Kemler):** 33  
**- EMS Number:** F-E,S-D

**- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

**- Transport/Additional information:**

**- ADR**

**- Limited quantities (LQ)** 1L  
**- Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml  
**- Transport category** 2  
**- Tunnel restriction code** D/E

**- IMDG**

**- Limited quantities (LQ)** 1L  
**- Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

**- UN "Model Regulation":**

UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II

**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.

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- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 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**
  - H225 Highly flammable liquid and vapour.
  - H301 Toxic if swallowed.
  - H311 Toxic in contact with skin.
  - H319 Causes serious eye irritation.
  - H331 Toxic if inhaled.
  - H336 May cause drowsiness or dizziness.
  - H373 May cause damage to organs through prolonged or repeated exposure.
  - H412 Harmful to aquatic life with long lasting effects.
- **Abbreviations and acronyms:**
  - 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
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Acute Tox. 3: Acute toxicity – Category 3
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
  
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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