

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

- 1.1 Product identifier

- Trade name: TB 1102

- 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



GHS02 flame

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



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin 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 GHS08

- Signal word

Danger

- Hazard-determining components of labelling:

toluene
propan-2-ol

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- **Hazard statements**
 - H225 Highly flammable liquid and vapour.
 - H315 Causes skin irritation.
 - H361d Suspected of damaging the unborn child.
 - H336 May cause drowsiness or dizziness.
 - H373 May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
 - P260 Do not breathe vapours.
 - P280 Wear protective gloves / eye protection.
 - P302+P352 IF ON SKIN: Wash with plenty of water.
 - 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: 108-88-3 EINECS: 203-625-9 | toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336 | 10-25% |
| CAS: 67-63-0 EINECS: 200-661-7 | propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 | 2.5-<10% |
| CAS: 7664-41-7 EINECS: 231-635-3 | ammonia, anhydrous Flam. Liq. 3, H226; Acute Tox. 3, H331; Skin Corr. 1 H314; Aquatic Acute 1, H400; Flam. Gas 2, H221; Press. Gas C, H280 | 0.1-<0.25% |

- **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.
- **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.

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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.
- **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.
 - During heating or in case of fire poisonous gases are produced.
- **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**
 - 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:**
 - 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.
 - 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:** 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:**

7664-41-7 ammonia, anhydrous

| | |
|-----|---|
| WEL | Short-term value: 25 mg/m ³ , 35 ppm |
| | Long-term value: 18 mg/m ³ , 25 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.

- **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: | Fluid |
| Colour: | Yellow |
| Odour: | Solvent-like |

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| | |
|--|---|
| - Change in condition Melting point/freezing point: | Not applicable |
| Initial boiling point and boiling range: | > 80 °C |
| - Flash point: | 5 °C (c.f) |
| - Flammability (solid, gaseous) | Not applicable. |
| - Self igniting: | Product is not selfigniting. |
| - Explosive properties: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| - Vapour pressure: | Not determined. |
| - Density at 25 °C: | 1.33 |
| - Evaporation rate | Not determined. |
| - Solubility in / Miscibility with Water: | Not miscible or difficult to mix |
| - Viscosity: dynamic at 25 °C: | 6900 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** Reacts with oxidizing agents
- **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:

108-88-3 toluene

| | | |
|------------|----------|-------------------|
| Oral | LD50 | 5000 mg/kg (rat) |
| Dermal | LD50 | 12124 mg/kg (rab) |
| Inhalative | LC50/4 h | 5320 mg/l (mouse) |

67-63-0 propan-2-ol

| | | |
|------------|----------|-------------------|
| Oral | LD50 | 5338 mg/kg (rat) |
| Dermal | LD50 | 12870 mg/kg (rab) |
| Inhalative | LC50/4 h | 72.6 mg/l (rat) |

7664-41-7 ammonia, anhydrous

| | | |
|------------|----------|-----------------|
| Oral | LD50 | 350 mg/kg (rat) |
| Inhalative | LC50/4 h | 2000 mg/l (rat) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.

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- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, 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** Suspected of damaging the unborn child.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

67-63-0 propan-2-ol

LC50/96h 9640 mg/l (PIMEPHALES PROMELAS) (Flow-through)

CE50/48h 13299 mg/l (daphnia)

- 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:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.



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.

- 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

| | |
|---|---|
| <ul style="list-style-type: none"> - 14.1 UN-Number - ADR, IMDG, IATA | <p align="center">UN1133</p> |
| <ul style="list-style-type: none"> - 14.2 UN proper shipping name - ADR - IMDG - IATA | <p align="center">1133 ADHESIVES ADHESIVES Adhesives</p> |
| <ul style="list-style-type: none"> - 14.3 Transport hazard class(es) - ADR | <div style="text-align: center;">  </div> <ul style="list-style-type: none"> - Class - Label |
| <ul style="list-style-type: none"> - Class - Label | <p align="center">3 (F1) Flammable liquids. 3</p> |
| <ul style="list-style-type: none"> - IMDG, IATA | <div style="text-align: center;">  </div> <ul style="list-style-type: none"> - Class - Label |
| <ul style="list-style-type: none"> - Class - Label | <p align="center">3 Flammable liquids. 3</p> |
| <ul style="list-style-type: none"> - 14.4 Packing group - ADR, IMDG, IATA | <p align="center">III</p> |
| <ul style="list-style-type: none"> - 14.5 Environmental hazards: - Marine pollutant: | <p align="center">No</p> |
| <ul style="list-style-type: none"> - 14.6 Special precautions for user - Danger code (Kemler): - EMS Number: - Segregation groups - Stowage Category | <p align="center">Warning: Flammable liquids. - F-E, S-D Alkalis A</p> |
| <ul style="list-style-type: none"> - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | <p align="center">Not applicable.</p> |
| <ul style="list-style-type: none"> - Transport/Additional information: | <ul style="list-style-type: none"> - ADR - Limited quantities (LQ) - Excepted quantities (EQ) |
| <ul style="list-style-type: none"> - Transport category - Tunnel restriction code | <p align="center">5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 E</p> |
| <ul style="list-style-type: none"> - IMDG | <ul style="list-style-type: none"> - Limited quantities (LQ) - Excepted quantities (EQ) |
| <ul style="list-style-type: none"> - Limited quantities (LQ) - Excepted quantities (EQ) | <p align="center">5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml ml</p> |

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- UN "Model Regulation":

UN 1133 ADHESIVES, 3, III

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** ammonia, anhydrous
- **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 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**
 - H221 Flammable gas.
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H280 Contains gas under pressure; may explode if heated.
 - H304 May be fatal if swallowed and enters airways.
 - H314 Causes severe skin burns and eye damage.
 - H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
 - H331 Toxic if inhaled.
 - H336 May cause drowsiness or dizziness.
 - H361d Suspected of damaging the unborn child.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H400 Very toxic to aquatic life.
- **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. Gas 2: Flammable gases – Category 2
 - Press. Gas C: Gases under pressure – Compressed gas
 - Flam. Liq. 2: Flammable liquids – Category 2
 - Flam. Liq. 3: Flammable liquids – Category 3
 - Acute Tox. 3: Acute toxicity – Category 3

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*Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Repr. 2: Reproductive toxicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2**Asp. Tox. 1: Aspiration hazard – Category 1**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*

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