

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.03.2018

Version number 4

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

- **1.1 Product identifier**
- **Trade name:** **TB 1401B**
- **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** Acrylic 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**



GHS02 flame

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



GHS08 health hazard

STOT SE 1 H370 Causes damage to organs.

- **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 GHS08

- **Signal word**

Danger

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

methanol
toluene

- **Hazard statements**

H225 Highly flammable liquid and vapour.
H370 Causes damage to organs.

- **Precautionary statements**

P260 Do not breathe vapours.
P280 Wear protective gloves / eye protection.

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P301+P310 *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*

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.*

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: 67-56-1 EINECS: 200-659-6 | methanol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT SE 1, H370 | 50-100% |
| 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 | 1-2.5% |
| CAS: 108-05-4 EINECS: 203-545-4 | vinyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; ⚠ Acute Tox. 4, H332; STOT SE 3, H335 | 0.1-0.5% |

- **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.

- **After swallowing** Induce vomiting, only if affected person is fully conscious.
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

Headache
Dizziness

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- **4.3 Indication of any immediate medical attention and special treatment needed** *Medical supervision for at least 48 hours*

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** *CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant 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** *Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide (CO)
During heating or in case of fire poisonous gases are produced.*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Wear fully protective suit.
Mount 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** *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.
Prevent seepage into sewage system, workpits and cellars.
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.
Prevent formation of aerosols.*

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- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
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.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
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:**

108-05-4 vinyl acetate

| | |
|-----|--|
| WEL | Short-term value: 35.2 mg/m ³ , 10 ppm Long-term value: 17.6 mg/m ³ , 5 ppm |
|-----|--|

- **DNELs**

67-56-1 methanol

| | | |
|------------|------|---|
| Oral | DNEL | 8 mg/kg (Consommateurs) |
| Dermal | DNEL | 40 mg/kg (Travailleur) |
| Inhalative | DNEL | 50 mg/m ³ (Consommateurs) 260 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.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- **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.

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- **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 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.*

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form:* *Fluid*
 - Colour:* *Green*
 - **Odour:** *Alcohol-like*
- **Change in condition**
 - Melting point/freezing point:* *undetermined*
 - Initial boiling point and boiling range:* *64 °C*
- **Flash point:** *9 °C*
- **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:** *0,88*
- **Evaporation rate** *Not determined.*
- **Solubility in / Miscibility with Water:** *Not miscible or difficult to mix*
- **Viscosity:**
 - dynamic at 20 °C:* *350 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 peroxides*
 - Reacts with halogenated compounds*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*

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- **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:**

67-56-1 methanol

| | | |
|------------|----------|-----------------------|
| Oral | LD50 | >2,528 mg/kg (rat) |
| Dermal | LD50 | 17,100 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 128.2 mg/l (rat) |

108-88-3 toluene

| | | |
|------------|----------|--------------------|
| Oral | LD50 | 5,000 mg/kg (rat) |
| Dermal | LD50 | 12,124 mg/kg (rab) |
| Inhalative | LC50/4 h | 5,320 mg/l (mouse) |

108-05-4 vinyl acetate

| | | |
|--------|------|----------------------|
| Oral | LD50 | 2,920 mg/kg (rat) |
| Dermal | LD50 | 2,335 mg/kg (rabbit) |

- **Primary irritant effect:**
 - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
 - **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** Based on available data, the classification criteria are not met.
 - **STOT-single exposure** Causes damage to organs.
 - **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:**

67-56-1 methanol

| | |
|----------|------------------------------------|
| LC50/96h | 15.4 mg/l (Leopomis macrochirus) |
| CE50/48h | >10,000 mg/l (daphnia) |
| CE50/96h | 22 mg/l (Selenastrum capricomutum) |

- **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.

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- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

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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.

SECTION 14: Transport information

- 14.1 UN-Number

- ADR, IMDG, IATA

UN1992

- 14.2 UN proper shipping name

- ADR

1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)

- IMDG, IATA

FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)

- 14.3 Transport hazard class(es)

- ADR



- Class

3 (FT1) Flammable liquids.

- Label

3+6.1

- IMDG



- Class

3 Flammable liquids.

- Label

3/6.1

- IATA



- Class

3 Flammable liquids.

- Label

3 (6.1)

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| | |
|---|---|
| - 14.4 Packing group - ADR, IMDG, IATA | II |
| - 14.5 Environmental hazards: - Marine pollutant: | No |
| - 14.6 Special precautions for user - Danger code (Kemler): - EMS Number: - Stowage Category - Stowage Code | Warning: Flammable liquids. 336 F-E,S-D B SW2 Clear of living quarters. |
| - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| - Transport/Additional information: | |
| ----- | |
| - ADR - Limited quantities (LQ) - Excepted quantities (EQ) | 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| - Transport category - Tunnel restriction code | 2 D/E |
| ----- | |
| - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) | 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| - UN "Model Regulation": | UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL), 3 (6.1), 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 - Seveso category | None of the ingredients is listed. H3 STOT SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE P5c FLAMMABLE LIQUIDS |
| - Qualifying quantity (tonnes) for the application of lower-tier requirements | 50 t |
| - Qualifying quantity (tonnes) for the application of upper-tier requirements | 200 t |
| - National regulations | |
| - Water hazard class: | Water hazard class 1 (Self-assessment): slightly hazardous for water. |

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- 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.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H370 Causes damage to organs.
- H373 May cause damage to organs through prolonged or repeated exposure.

- 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)
- DNEL: Derived No-Effect Level (REACH)
- 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
- Flam. Liq. 2: Flammable liquids – Category 2
- Acute Tox. 3: Acute toxicity – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Carc. 2: Carcinogenicity – Category 2
- Repr. 2: Reproductive toxicity – Category 2
- STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
- 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

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