

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.02.2012

Version number 1

Revision: 13.02.2012

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

- Product identifier

- Trade name: **TB 1401B**

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

- Application of the substance / the preparation Resin

- 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: H & S department
msds@threebond.fr
Three Bond Europe S.A.S (U.K Branch)
5 Newmarket Court, Kingston
MILTON KEYNES - MK10 0AG
Tel. +44 (0)1908 285000
Fax. +44 (0)1908 285001

- 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

2 Hazards identification

- 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.



GHS06 skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

STOT SE 1 H370 Causes damage to organs.

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



T; Toxic

R23/24/25-39/23/24/25: Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.



F; Highly flammable

R11: Highly flammable.

- 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.

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- Classification system: The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

- Label elements

- Labelling according to EU guidelines:

The product has been marked in accordance with EU Directives / respective national laws.

- Code letter and hazard designation of product:



T Toxic
F Highly flammable

- Hazard-determining components of labelling:

methanol

- Risk phrases:

11 Highly flammable.
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

- Safety phrases:

16 Keep away from sources of ignition - No smoking.
23 Do not breathe vapour.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of soap and water.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
60 This material and its container must be disposed of as hazardous waste.

- Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 67-56-1 EINECS: 200-659-6	methanol T R23/24/25-39/23/24/25; F R11 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 Xn R48/20-63-65; Xi R38; F R11 R67 Repr. Cat. 3 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%

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- Additional information

For the wording of the listed risk phrases refer to section 16.

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4 First aid measures**- Description of first aid measures**

- **General information** *Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.*
- **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.*
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** *CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **For safety reasons unsuitable extinguishing agents** *Water with full jet.*
- **Special hazards arising from the substance or mixture** *No further relevant information available.*
- **Advice for firefighters**
- **Protective equipment:** *Wear self-contained respiratory protective device.*
- **Additional information** *Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

6 Accidental release measures**- Personal precautions, protective equipment and emergency procedures**

Keep away from ignition sources



Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- Environmental precautions:

Do not allow product to reach sewage system or any water course.

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- Methods and material for containment and cleaning up:

Do not allow to enter sewers/ surface or ground water.

Ensure adequate ventilation.
Absorb liquid components with liquid-binding material.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.

- 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.

7 Handling and storage

- Handling

- Precautions for safe handling Keep receptacles tightly sealed.
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.

- 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: Not required.

- Further information about storage conditions:

Protect from heat and direct sunlight.

- Specific end use(s)

No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.

- Control parameters

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

67-56-1 methanol (50-100%)

WEL	Short-term value: 333 mg/m ³ , 250 ppm
	Long-term value: 266 mg/m ³ , 200 ppm
	Sk

108-88-3 toluene (1-2.5%)

WEL	Short-term value: 384 mg/m ³ , 100 ppm
	Long-term value: 191 mg/m ³ , 50 ppm
	Sk

- Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls

- Personal protective equipment

- General protective and hygienic measures

The usual precautionary measures should be adhered to when handling chemicals.

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- Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work.*
- **Breathing equipment:** *Use suitable respiratory protective device in case of insufficient ventilation.*
 - **Protection of hands:** *Protective gloves.
Nitrile, latex
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.*
 - **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.*

9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

Form:	Fluid
Colour:	Green
Odour:	Characteristic

- Change in condition

Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	undetermined

- **Flash point:** 9°C

- **Flammability (solid, gaseous)** Not applicable.

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

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Density:** 0.88

- Solubility in / Miscibility with

Water: Not miscible or difficult to mix

- Viscosity:

dynamic: 350 mPas

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

10 Stability and reactivity

- Reactivity

- Chemical stability

- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions

No dangerous reactions known

- Conditions to avoid

No further relevant information available.

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- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Flammables gases / vapour
Poisonous gases/vapours

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

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

67-56-1 methanol

Oral	LD50	13000 mg/kg (rat)
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108-88-3 toluene


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

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing 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:
Toxic

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Other information:** The product is difficultly biodegradable.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment):
slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **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.

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- Uncleaned packagings:**- Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Disposal must be made according to official regulations.

14 Transport information

- UN-Number**- ADR, IMDG, IATA**

UN1992

- UN proper shipping name**- ADR**1992 FLAMMABLE LIQUID, TOXIC, N.O.S.
(METHANOL)**- IMDG, IATA**FLAMMABLE LIQUID, TOXIC, N.O.S.
(METHANOL)**- Transport hazard class(es)****- ADR****- Class**

3 (FT1) Flammable liquids.

- Label

3+6.1

- IMDG, IATA**- Class**

3 Flammable liquids.

- Label

3+6.1

- Packing group**- ADR, IMDG, IATA**

II

- Environmental hazards:**- Marine pollutant:**

No

- Special precautions for user

Warning: Flammable liquids.

- Danger code (Kemler):

336

- EMS Number:

F-E,S-D

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

- Transport/Additional information:**- ADR****- Tunnel restriction code**

D/E

- UN "Model Regulation":UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S.
(METHANOL), 3 (6.1), II

GB

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Technical instructions (air):

Class	Share in %
I	50-100
NK	1-2,5

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
.....	
R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R38	Irritating to skin.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

- 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)
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - ICAO: International Civil Aviation Organization
 - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent