ThreeBond

Safety data sheet

according to 1907/2006/EC, Article 31 - Regulation 2020/878 amending Annex II

Printing date 10.11.2022 *Version number 7 (replaces version 6)* *Revision: 10.11.2022*

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

- **1.1 Product identifier**

- **Trade name:** **TB 1401C**
- **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
SU22 Professional uses
- **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
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- **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)
UE Tel : 112

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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.

GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.
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.

- **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 GHS06 GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labelling:** *methanol*
toluene
- **Hazard statements**

H225	*Highly flammable liquid and vapour.*
H301+H311+H331	*Toxic if swallowed, in contact with skin or if inhaled.*
H370	*Causes damage to organs.*

- **Precautionary statements**

P260	*Do not breathe dust/fume/gas/mist/vapours/spray.*
P280	*Wear protective gloves/protective clothing/eye protection/face protection.*
P301+P310	*IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
P302+P352	*IF ON SKIN: Wash with plenty of soap and water.*
P304+P340	*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
P311	*Call a POISON CENTER/doctor.*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P403+P233	*Store in a well-ventilated place. Keep container tightly closed.*
P501	*Dispose of contents/container in accordance with local/regional/national/international regulations.*

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- **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 Index number: 603-001-00-X	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥10 % STOT SE 2; H371: 3 % ≤ C < 10 %	50–100%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3 Reg.nr.: 01-21194711310-51-XXXX	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 Index number: 607-023-00-0	vinyl acetate Flam. Liq. 2, H225; Carc. 2, H351; Acute Tox. 4, H332; STOT SE 3, H335	0,5–1%

- **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**
- **General information** In case of irregular breathing or respiratory arrest provide artificial respiration.
Immediately remove any clothing soiled by the product.
Remove breathing apparatus only after contaminated clothing have been completely removed.
- **After inhalation** In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **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.
If symptoms persist consult doctor.
- **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*** *No further relevant information available.*

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)
- ***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*** *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:*** *Dispose contaminated material as waste according to item 13.*
Ensure adequate ventilation.
Absorb liquid components with liquid-binding material.
- ***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.
- ***Information about protection against explosions and fires:*** *Keep ignition sources away - Do not smoke.*
Protect against electrostatic charges.
Keep respiratory protective device available.

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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 acids.
Store away from oxidising agents.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**	
108-88-3 toluene	
VLEP (France)	Short-term value: 384 mg/m³, 100 ppm Long-term value: 76,8 mg/m³, 20 ppm R2, risque de pénétration percutanée
108-05-4 vinyl acetate	
VLEP (France)	Short-term value: 35,2 mg/m³, 10 ppm Long-term value: 17,6 mg/m³, 5 ppm C2

- **DNELs**		
67-56-1 methanol		
Oral	DNEL	8 mg/kg (Consommateurs) short & long term exposure - systemic effect
Dermal	DNEL	40 mg/kg (Travailleur) acute/short & long term exposure - systemic effect
Inhalative	DNEL	50 mg/m3 (Consommateurs) acute/short & long term exposure - systemic effect
		260 mg/m3 (Travailleur) acute/short & long term exposure - systemic & local effect

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

- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as 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.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
- **Breathing equipment:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Filter AX.

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- **Hand protection**

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face 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**	
- **Physical state**	Fluid
- **Colour:**	Red
- **Odour:**	Characteristic
- **Melting point/freezing point:**	undetermined
- **Boiling point or initial boiling point and boiling range**	64 °C
- **Flammability**	Highly flammable.
- **Flash point:**	9 °C
- **Ignition temperature:**	455 °C
- **Viscosity:**	
- **dynamic at 20 °C:**	350 mPas (-)
- **Solubility**	
- **Water:**	Not miscible or difficult to mix
- **Vapour pressure:**	Not determined.
- **Density and/or relative density**	
- **Density at 20 °C:**	0,88 g/cm³

- **9.2 Other information**	
- **Appearance:**	
- **Form:**	Fluid
- **Important information on protection of health and environment, and on safety.**	
- **Self igniting:**	Product is not selfigniting.
- **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Change in condition**	
- **Evaporation rate**	Not determined.

- **Information with regard to physical hazard classes**	
- **Explosives**	Void
- **Flammable gases**	Void
- **Aerosols**	Void
- **Oxidising gases**	Void
- **Gases under pressure**	Void
- **Flammable liquids**	Highly flammable liquid and vapour.
- **Flammable solids**	Void

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- **Self-reactive substances and mixtures**	Void
- **Pyrophoric liquids**	Void
- **Pyrophoric solids**	Void
- **Self-heating substances and mixtures**	Void
- **Substances and mixtures, which emit flammable gases in contact with water**	Void
- **Oxidising liquids**	Void
- **Oxidising solids**	Void
- **Organic peroxides**	Void
- **Corrosive to metals**	Void
- **Desensitised explosives**	Void

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 strong acids and oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong acids
  Oxidizing agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Toxic if swallowed, in contact with skin or if inhaled.

- 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)

- **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.
- **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.

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- **11.2 Information on other hazards**

- **Endocrine disrupting properties**
None of the ingredients is listed.

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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

- **European waste catalogue**	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

- **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 or ID number	
- ADR/RID/ADN, IMDG, IATA	UN1992
- 14.2 UN proper shipping name	
- ADR/RID/ADN	UN1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (methanol)
- IMDG	FLAMMABLE LIQUID, TOXIC, N.O.S. (methanol)
- IATA	FLAMMABLE LIQUID, TOXIC, N.O.S. (containing methanol)
- 14.3 Transport hazard class(es)	
- ADR/RID/ADN	
	
- 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)
- 14.4 Packing group	
- ADR/RID/ADN, IMDG, IATA	II
- 14.5 Environmental hazards:	
- Marine pollutant:	No
- 14.6 Special precautions for user	Warning: Flammable liquids.
- Hazard identification number (Kemler code):	336
- EMS Number:	F-E,S-D
- Stowage Category	B
- Stowage Code	SW2 Clear of living quarters.
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
- Transport/Additional information:	
- ADR/RID/ADN	
- 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

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- **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 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**	None of the ingredients is listed.
- **Seveso category**	H2 ACUTE TOXIC 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
- **REGULATION (EC) No 1907/2006 ANNEX XVII**	Conditions of restriction: 3, 48, 69

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **Regulation (EC) No 273/2004 on drug precursors**

108-88-3	toluene	3

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

108-88-3	toluene	3

- **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.

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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.

- **Version number of previous version:** 6
- **Abbreviations and acronyms:**
ADR: Accord relatif au transport international 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