

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

Printing date 02.02.2022

Version number 25

Revision: 28.01.2022

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

**1.1 Product identifier**

- Trade name: **Tank Cure Epoxy Remover**
- Article number: P900-00006
- CAS Number: 646-06-0
- EC number: 211-463-5
- Index number: 605-017-00-2
- Registration number: 01-2119490744-29
- UFI: 0RQ0-Q0C2-Q00H-YD7R

**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: Public domain (administration, education, entertainment, services, craftsmen)  
SU19 Building and construction work
- Process category: PROC19 Manual activities involving hand contact  
PROC10 Roller application or brushing  
PROC13 Treatment of articles by dipping and pouring  
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- Environmental release category: ERC8c Widespread use leading to inclusion into/onto article (indoor)  
ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)  
ERC8f Widespread use leading to inclusion into/onto article (outdoor)  
ERC5 Use at industrial site leading to inclusion into/onto article
- Article category: AC13 Plastic articles  
AC7 Metal articles
- Technical function: Reactive cleaning/removal agent
- Application of the substance / the mixture: See our technical datasheet for application details of this product.  
Paint remover

**1.3 Details of the supplier of the safety data sheet**

- Manufacturer/Supplier: Poly-Service BV, Hoogeveenweg 83, NL 2913 LV Nieuwerkerk a/d IJssel  
Tel: +31 180 314777, Fax: +31 180 317847  
E-mail: info@polyservice.nl

- Further information obtainable from: Research and Development.


**1.4 Emergency telephone number:**

Poly-Service BV, Tel: +31 180 314777, E-mail: info@polyservice.nl

**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.

**2.2 Label elements**

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms

The substance is classified and labelled according to the CLP regulation.

   
GHS02 GHS07

- Signal word: Danger
- Hazard statements: H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.
- Precautionary statements: P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

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P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 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**

**· 3.1 Chemical characterisation: Substances**

- CAS No. Description 646-06-0 1,3-dioxolane
- Identification number(s)
- EC number: 211-463-5
- Index number: 605-017-00-2

**SECTION 4: First aid measures**

**· 4.1 Description of first aid measures**

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.

**· 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**· 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 or powder. Fight larger fires with alcohol resistant foam.

**· 5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

**· 5.3 Advice for firefighters**

- Protective equipment: No special measures required.

**SECTION 6: Accidental release measures**

**· 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**· 6.2 Environmental precautions:**

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:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

**· 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.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

- Information about fire - and explosion protection: No special precautions are necessary if used correctly.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

**7.2 Conditions for safe storage, including any incompatibilities**

- Storage: Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

- Recommended storage temperature: 5 - 30 °C

**7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

- Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace: Not required.

· DNEL (Derived No Effect Level) for workers

**646-06-0 1,3-dioxolane**

Dermal	Long-term - systemic effects, worker	4.1 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	19 mg/m <sup>3</sup> (Worker)

· DNEL (Derived No Effect Level) for the general population

**646-06-0 1,3-dioxolane**

Oral	Long-term - systemic effects, general population	75 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	0.8 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general population	5.7 mg/m <sup>3</sup> (General population)

· PNEC (Predicted No Effect Concentration) values

**646-06-0 1,3-dioxolane**

Aquatic compartment - freshwater	19.7 mg/l (Freshwater)
Aquatic compartment - marine water	1.97 mg/l (Marine water)
Aquatic compartment - water, intermittent releases	0.95 mg/l (Intermittent release water)
Aquatic compartment - sediment in freshwater	77.7 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water	7.77 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil	2.62 mg/kg dw (Soil)
Sewage treatment plant	1 mg/l (stp)

· Additional information: The lists valid during the making were used as basis.

**8.2 Exposure controls**

- Personal protective equipment: Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.
- General protective and hygienic measures: Not required.
- Respiratory protection: Protective gloves
- Protection of hands:

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- Material of gloves
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - 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.
  - Recommended thickness of the material:  $\geq 0.3$  mm
- 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.
  - For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).
- For the permanent contact gloves made of the following materials are suitable:
  - Nitrile rubber, NBR
- As protection from splashes gloves made of the following materials are suitable:
  - Nitrile rubber, NBR
- Not suitable are gloves made of the following materials:
  - Leather gloves
  - Strong material gloves
- Eye protection:
  - Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

<b>· 9.1 Information on basic physical and chemical properties</b>	
· General Information	
· Appearance:	
Form:	Liquid
Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	-26.4 °C
Initial boiling point and boiling range:	75 °C
· Flash point:	-6 °C (Pensky Martens, ASTM D93)
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	274 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20 °C:	133 hPa
· Density at 20 °C:	1.06 g/cm <sup>3</sup> (DIN 51757, ASTM D 1298)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.

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Kinematic at 20 °C:	9.43 mm <sup>2</sup> /s
VOC (2004/42/EC):	0.00 %
<b>· 9.2 Other information</b>	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** No dangerous reactions known.
- **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 relevant for classification:

Components	Type	Value	Species
<b>646-06-0 1,3-dioxolane</b>			
Oral	LD50	3,000 mg/kg	(Rat)
Dermal	LD50	8,480 mg/kg	(Rabbit)

- 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.
- Additional toxicological information:
- 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 Based on available data, the classification criteria are not met.
- 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.

Type of test	Effective concentration	Method	Assessment
<b>646-06-0 1,3-dioxolane</b>			
Inhalative	LC50/4 h	20,650 mg/l	(Rat)

- **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) (Assessment by list): 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.

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

- Recommendation: Must not be disposed 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 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP3	Flammable
HP4	Irritant - skin irritation and eye damage

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

· <b>14.1 UN-Number</b>	
· ADR/RID/ADN, IMDG, IATA	UN1166
· <b>14.2 UN proper shipping name</b>	
· ADR/RID/ADN	1166 DIOXOLANE
· IMDG, IATA	DIOXOLANE
· <b>14.3 Transport hazard class(es)</b>	
· ADR/RID/ADN	
· Class	3 (F1) Flammable liquids.
· Label	3
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· IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3
· <b>14.4 Packing group</b>	
· ADR/RID/ADN, IMDG, IATA	II
· <b>14.5 Environmental hazards:</b>	
· Marine pollutant:	No
· <b>14.6 Special precautions for user</b>	
· Hazard identification number (Kemler code):	Warning: Flammable liquids. 33
· EMS Number:	F-E,S-D
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
Not applicable.	
· Transport/Additional information:	
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· 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
· Transport category	2
· Tunnel restriction code	D/E
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· 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

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· UN "Model Regulation":	UN 1166 DIOXOLANE, 3, II
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**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  
Substance is not listed.
- 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
- REGULATION (EC) No 1907/2006 ANNEX XVII  
Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
Substance is not listed.
· REGULATION (EU) 2019/1148
· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
Substance is not listed.
· Annex II - REPORTABLE EXPLOSIVES PRECURSORS
Substance is not listed.
· Regulation (EC) No 273/2004 on drug precursors
Substance is not listed.
· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
Substance is not listed.

- **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.

- Department issuing SDS: Research and Development
- Contact: G. Lok (tel +31 0180 314777, e-mail [info@polyservice.nl](mailto:info@polyservice.nl))
- Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
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  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
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  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Sources: Literature data and/or investigation reports are available through the manufacturer.
- \* Data compared to the previous version altered.