

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

Printing date 23.11.2020

Version number 21

Revision: 05.08.2020

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

1.1 Product identifier

Trade name: **Tank Cure Component A Sealant**

Article number: P345-00000
UFI: 5YK0-E0YM-700R-VCKW

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
Product category PC9a Coatings and paints, thinners, paint removers
Process category PROC19 Manual activities involving hand contact
PROC10 Roller application or brushing
Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article
ERC8c Widespread use leading to inclusion into/onto article (indoor)
ERC8f Widespread use leading to inclusion into/onto article (outdoor)
Article category AC13 Plastic articles
Application of the substance / the mixture See our technical datasheet for application details of this product.
Epoxy resin

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

 GHS08 health hazard

Muta. 2 H341 Suspected of causing genetic defects.
Repr. 1A H360F May damage fertility.

 GHS05 corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

 GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

 GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements

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

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



GHS05 GHS07 GHS08 GHS09

Signal word Danger

Hazard-determining components of labelling:

bis[4-(2,3-epoxypropoxy)phenyl]propane
1,3-propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane

Hazard statements

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H360F May damage fertility.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

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P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
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.
P310	Immediately call a POISON CENTER/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
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 Chemical characterisation: Mixtures

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

Dangerous components:

CAS: 1675-54-3 EINECS: 216-823-5 Index number: 603-073-00-2 Reg.nr.: 01-2119456619-26	bis[4-(2,3-epoxypropoxy)phenyl]propane ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	50 – 100%
CAS: 30499-70-8 EC number: 608-489-8 Reg.nr.: 01-2120078341-60	1,3-propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl) oxirane ⚠ Muta. 2, H341; Repr. 1A, H360F; ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	10 – 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

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then 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: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

- Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.

- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.

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- Inform respective authorities in case of seepage into water course or sewage system.
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).
Use neutralising agent.
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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- Information about fire - and explosion protection: Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Storage: No special requirements.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Recommended storage temperature: 5 - 30 °C
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- **8.1 Control parameters**
- Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNEL (Derived No Effect Level) for workers		
1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane		
Dermal	Long-term - systemic effects, worker	0.75 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	4.93 mg/m ³ (Worker)
· DNEL (Derived No Effect Level) for the general population		
1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane		
Oral	Long-term - systemic effects, general population	0.5 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	0.0893 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general population	0.87 mg/m ³ (General population)
· PNEC (Predicted No Effect Concentration) values		
1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane		
Aquatic compartment - freshwater		0.006 mg/l (Freshwater)
Aquatic compartment - marine water		0.001 mg/l (Marine water)
Aquatic compartment - sediment in freshwater		0.341 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water		0.034 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil		0.065 mg/kg dw (Soil)
Sewage treatment plant		10 mg/l (stp)
Oral secondary poisoning		11 mg/kg food (Food sec poisoning)

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- Additional information: The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:
 - 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.
 - Avoid contact with the eyes.
 - Avoid contact with the eyes and skin.
- Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands:
 - Protective 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
- 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - Recommended thickness of the material: ≥ 0.3 mm
- 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.
 - 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

9.1 Information on basic physical and chemical properties	
· General Information	
· Appearance:	
· Form:	Fluid
· Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value at 20 °C:	7
· Change in condition	
· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	Undetermined.
· Flash point:	194 °C (Pensky Martens, ASTM D93)
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.

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· Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.2 g/cm ³ (DIN 51757, ASTM D 1298)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with · water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic at 20 °C:	450 mPas (Brookfield, ASTM D1544)
· Kinematic:	Not determined.
· Solvent content:	
· VOC (2004/42/EC):	0.00 %
· 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	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.
· Primary irritant effect:	
· Skin corrosion/irritation	Causes severe skin burns and eye damage.
· Serious eye damage/irritation	Causes serious eye damage.
· Respiratory or skin sensitisation	May cause an allergic skin reaction.
· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	
· Germ cell mutagenicity	Suspected of causing genetic defects.
· Carcinogenicity	Based on available data, the classification criteria are not met.
· Reproductive toxicity	May damage fertility.
· 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.
· 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.
· Ecotoxicological effects:	
· Remark:	Toxic for fish
· 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. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

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- Toxic for aquatic organisms
- **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 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
HP8	Corrosive
HP10	Toxic for reproduction
HP11	Mutagenic
HP13	Sensitising
HP14	Ecotoxic

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number	
· ADR/RID/ADN, IMDG, IATA	UN3082
· 14.2 UN proper shipping name	
· ADR/RID/ADN	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN	
· Class	9 (M6) Miscellaneous dangerous substances and articles.
· Label	9
· IMDG, IATA	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· 14.4 Packing group	
· ADR/RID/ADN, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	Yes
· Marine pollutant:	Yes
· Symbol (fish and tree)	Symbol (fish and tree)
· Special marking (ADR/RID/ADN):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· 14.6 Special precautions for user	
· Warning: Miscellaneous dangerous substances and articles.	Warning: Miscellaneous dangerous substances and articles.
· Hazard identification number (Kemler code):	90
· EMS Number:	F-A,S-F

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· Stowage Category	A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN	5L
· Limited quantities (LQ)	Code: E1
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700)), 9, 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
None of the ingredients is listed.
- Seveso category
E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements
200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements
500 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

None of the ingredients is 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.

- Relevant phrases
 - H314 Causes severe skin burns and eye damage.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H341 Suspected of causing genetic defects.
 - H360F May damage fertility.
 - H411 Toxic to aquatic life with long lasting effects.

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· Classification according to Regulation (EC) No 1272/2008	
Skin corrosion/irritation Serious eye damage/eye irritation Skin sensitisation Germ cell mutagenicity Reproductive toxicity Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· Department issuing SDS: Research and Development

· Contact: G. Lok (tel +31 0180 314777, e-mail 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 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)
 VOC: Volatile Organic Compounds (USA, EU)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Skin Sens. 1: Skin sensitisation – Category 1
 Muta. 2: Germ cell mutagenicity – Category 2
 Repr. 1A: Reproductive toxicity – Category 1A
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 Literature data and/or investigation reports are available through the manufacturer.

· Sources:

· * Data compared to the previous version altered.