

Printing date 02.02.2022 Version number 21 Revision: 31.01.2022

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

· 1.1 Product identifier

· Trade name: PS Poly-Pox Injecteer harder

· Article number: P318-00000

· UFI: KPC0-E09V-600P-NC2E

· 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

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 curing agent Epoxy impregnation

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Poly-Service BV, Hoogeveenenweg 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

GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

(!) GHS07

Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H332 Harmful if inhaled.

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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 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

011005 011

GHS05 GHS07

· Signal word Danger

· Hazard-determining components of

labelling: Benzyl alcohol

Reactieproducten van 3-aminomethyl-3,4,4-trimethylcyclohexyl amine en 4,4'-isopropylideendifenol, oligomere reactieproducten met 1-chloor-2,3-epoxypropaan

m-phenylenebis(methylamine)

· Hazard statements H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H412 Harmful to aquatic life with long lasting effects.

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.

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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.

· Additional information: EUH071 Corrosive to the respiratory tract.

· 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: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332	25 – 50%		
	Reactieproducten van 3-aminomethyl-3,4,4-trimethylcyclohexyl amine en 4,4'-isopropylideendifenol, oligomere reactieproducten met 1-chloor-2,3-epoxypropaan Skin Corr. 1A, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 3, H412	25 – 50%		
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50	m-phenylenebis(methylamine) Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	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.

Symptoms of poisoning may even occur after several hours; therefore medical

observation for at least 48 hours after the accident.

· 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: Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

 4.2 Most important symptoms and effects, both acute and

delayed

4.3 Indication of any immediate

medical attention and special

treatment needed

No further relevant information available.

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.

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

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:

· 6.2 Environmental precautions:

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.

Prevent formation of aerosols.

Keep container tightly sealed.

· Information about fire - and

explosion protection:

Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility:

· Further information about storage

conditions:

· Recommended storage

temperature:

Not required.

· 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:

· Ingredients with limit values that

require monitoring at the

workplace:

No further data; see item 7.

Inhalative | Long-term - systemic effects, general population | 5.4 mg/m³ (General population)

The product does not contain any relevant quantities of materials with critical values that

have to be monitored at the workplace.

· DNEL (De	· DNEL (Derived No Effect Level) for workers				
	100-51-6 Benzyl alcohol				
Dermal	Long-term - systemic effects, worker 8 mg/kg bw/day (Worker)				
Inhalative	Long-term - systemic effects, worker 22 mg/m³ (Worker)				
	1477-55-0 m-phenylenebis(methylamine)				
Dermal	Long-term - systemic effects, worker 0.33 mg/kg bw/day (Worker)				
Inhalative	nhalative Long-term - systemic effects, worker 1.2 mg/m³ (Worker)				
· DNEL (Derived No Effect Level) for the general population					
100-51-6 Benzyl alcohol					
Oral	Long-term - systemic effects, general population 4 mg/kg bw/day (General population)				
Dermal	Long-term - systemic effects, general population 4 mg/kg bw/day (General population)				

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· PNEC (Predicted No Effect Concentration) values			
100-51-6 Benzyl alcohol			
Aquatic compartment - freshwater	1 mg/l (Freshwater)		
Aquatic compartment - marine water	0.1 mg/l (Marine water)		
1477-55-0 m-phenylenebis(methylamine)			
Aquatic compartment - freshwater	0.094 mg/l (Freshwater)		
Aquatic compartment - marine water	0.0094 mg/l (Marine water)		
Aquatic compartment - water, intermittent releases	0.152 mg/l (Intermittent release water)		
Aquatic compartment - sediment in freshwater	0.43 mg/kg sed dw (Sediment freshwater)		
Aquatic compartment - sediment in marine water	0.043 mg/kg sed dw (Sediment marine water)		
Terrestrial compartment - soil	0.045 mg/kg dw (Soil)		
Sewage treatment plant	10 mg/l (stp)		

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

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic

Keep away from foodstuffs, beverages and feed. measures:

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.

· 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

The exact break trough time has to be found out by the manufacturer of the protective · Penetration time of glove material

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: · As protection from splashes gloves

made of the following materials are

suitable: Not suitable are gloves made of

the following materials:

Nitrile rubber, NBR

Nitrile rubber, NBR

Leather gloves

Strong material gloves

Tightly sealed goggles · Eye protection:

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Appearance:

Form: Fluid

Colour: According to product specification

· Odour: Characteristic · Odour threshold: Not determined.

pH-value at 20 °C: 11

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 Change in condition Melting point/freezing point: Initial boiling point and boiling range 	Undetermined. :: 205 °C
· Flash point:	101 °C (Pensky Martens, ASTM D93)
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	435 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	1.3 Vol % 13 Vol %
· Vapour pressure at 20 °C:	0.1 hPa
Density at 20 °C: Relative density Vapour density Evaporation rate	1.05 g/cm³ (DIN 51757, ASTM D 1298) Not determined. Not determined. 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: Kinematic:	280 mPas (Brookfield, ASTM D1544) Not determined.
· Solvent content: Organic solvents: VOC (2004/42/EC):	50.0 % 50.00 %
Solids content:	100.0 %
· 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.5 Incompatible materials:

No further relevant information available. 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 Harmful if swallowed or if inhaled.

· LD/LC50 values relevant for classification:

EB/2000 Values Folovanic for state measure.							
· Compor	nents	Туре	Value	Species			
ATE (Acute Toxicity Estimates)							
Oral	LD50	1,740 mg/kg (Rat)					

100-51-6 Benzyl alcohol					
		1,230 mg/kg (Rat)			
Dermal	LD50	2,000 mg/kg (Rabbit)			

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1477-55-0 m-phenylenebis(methylamine)

Oral LD50 1,040 mg/kg (Rat)

· Primary irritant effect:

· Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/irritation
 Respiratory or skin sensitisation
 Causes serious eye damage.
 May cause an allergic skin reaction.

· Additional toxicological information:

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

Type of test Effective concentration Method Assessment

ATE (Acute Toxicity Estimates)

Inhalative | LC50/4 h | 8.45 mg/l

1477-55-0 m-phenylenebis(methylamine)

Inhalative LC50/4 h 2.4 mg/l (Rat)

· 12.2 Persistence and

degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil
No further relevant information available.
No further relevant information available.
No further relevant information available.

· Ecotoxical effects:

· Remark: Harmful to 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.

Harmful to aquatic organisms

· 12.5 Results of PBT and vPvB assessment

⋅ PBT: Not applicable.⋅ νPνB: 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	· 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		
HP6	Acute Toxicity		
HP8	Corrosive		
HP13	Sensitising		
HP14	Ecotoxic		

· Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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SECTION 14: Transport information	
· 14.1 UN-Number · ADR/RID/ADN, IMDG, IATA	UN2922
· 14.2 UN proper shipping name · ADR/RID/ADN · IMDG, IATA	2922 CORROSIVE LIQUID, TOXIC, N.O.S. (4,4'- Isopropylidenediphenol, oligomeric reaction products with 1- chloro-2,3-epoxypropane, reaction products with 3-aminomethyl- 3,5,5-trimethylcyclohexylamine, Benzyl alcohol) CORROSIVE LIQUID, TOXIC, N.O.S. (4,4'- Isopropylidenediphenol, oligomeric reaction products with 1- chloro-2,3-epoxypropane, reaction products with 3-aminomethyl- 3,5,5-trimethylcyclohexylamine, Benzyl alcohol)
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN · Class · Label · IMDG	8 (CT1) Corrosive substances. 8+6.1
· Class · Label	8 Corrosive substances. 8/6.1
· IATA · Class · Label	8 Corrosive substances. 8 (6.1)
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	I
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category · Stowage Code	Warning: Corrosive substances. 886 F-A,S-B B SW2 Clear of living quarters.
14.7 Transport in bulk according to Annex II of M and the IBC Code	larpol Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E0 Not permitted as Excepted Quantity
· Transport category · Tunnel restriction code	1 C/D
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (4,4'- ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH 3-AMINOMETHYL-3,5,5- TRIMETHYLCYCLOHEXYLAMINE, BENZYL ALCOHOL), 8 (6.1), I

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.



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· 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.

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

None of the ingredients is listed

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

drug precursors

None of the ingredients is listed.

National regulations:

· Technical instructions (air):

Class Share in % NK 50.0

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.

H302 Harmful if swallowed. Relevant phrases

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Acute toxicity - oral Acute toxicity - inhalation Skin corrosion/irritation

· Abbreviations and acronyms:

Serious eye damage/eye irritation

Skin sensitisation

Hazardous to the aquatic environment - long-term (chronic)

aquatic hazard

· Department issuing SDS: Research and Development

· Contact:

G. Lok (tel +31 0180 314777, e-mail info@polyservice.nl)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

Regulation (EC) No 1272/2008.

(Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement

The classification of the mixture is generally based on the

calculation method using substance data according to

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)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

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· Sources:

 $\hbox{(Contd. of page 8)} \\ Literature data and/or investigation reports are available through the manufacturer.}$

* Data compared to the previous version altered.

- EU ---