

Safety Data Sheet

(EC) No 1907/2006/EC article 31

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

1.1. Product identifier	
Product name:	TEKINJECT POLYSTAR PRIMER A
Type of product:	Epoxy resin

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

Identified uses:	Monomer for polymerization.
Uses advised against:	All non-monomeric uses and all uses resulting in aerosols.

1.3. Details of the supplier of the safety data sheet

Company:	TEKINJECT BV
	Kruisblok 6
	BE-2320 Hoogstraten
Email address:	info@tekinject.com

1.4. Emergency telephone number

24-hour emergency number: +32 494 239 441

National Poison Information Service: This is a generic EU Safety Data Sheet. Consult your specific member State version for this information.

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS 09 environment

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

GHS 07

Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2H319 Causes serious eye irritation.Skin Sens. 1H317 May cause an allergic skin reaction.



2.2 Label elements

Labelling according to Regulation (EC) No1272/2008 The product is classified and labelled according to the CLP regulation.



· Signal word Warning

[•] Hazard-determining components of labelling:

bis[4-(2,3-epoxypropoxy)phenyl]propane Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1phenyleneoxymethylene)] dioxirane Oxirane, mono((C12-14-alkyloxy)methyl)derivs.

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionnary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contactlenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

Additional information:

Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.



3. Compositions/ information on ingredients

· 3.2 Mixture of substances listed below with nonhazardous additions.

· · Dangerous components:		
CAS: 1675-54-3 EINECS: 216-823-5 Reg.nr.: 01-2119456619-26- xxxx	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%
EC number: 701-263-0 Reg.nr.: 01-2119454392-40- xxxx	Reaction mass of 2,2'-[methylenebis(4,1- phenyleneoxymethylene)]dioxirane and [2-({2-[4- (oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'- [methylenebis(2,1-phenyleneoxymethylene)] dioxirane Aquatic Chronic 2, H411; skin irrit. 2, H315; Skin Sens. 1A, H317	>25–≤50%
CAS: 68609-92-2 EINECS: 271-846-8 Reg.nr.: 01-2119485289-22- xxxx	Oxirane, mono((C12-14-alkyloxy)methyl)derivs.	>10–≤25%

Additional information: For the wording of the listed hazard phrases refer to section 16

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 inside 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. 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

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5. Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray. • 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

- Wear fully protective suit.
- · Additional information

Collect contaminated firefighting water separately. It must not enter the sewage system

6. Accidental realease measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required. • 6.2 Environmental precautions:
- 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.

Do not allow to penetrate the ground/soil.

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 section 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

7. Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the

workplace.Prevent formation of aerosols.

• Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

• Storage class: 10

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



8. Exposure controls/personal protection

Control Parameters

DNELs 1675-54-3 Oral Dermal	nany) vgl. Abschn. IIb bis[4-(2,3-epoxypropoxy)ph Acute-systemic effects	penvilnronane
1675-54-3 Oral Dermal	Acute-systemic effects	penvilnronane
Oral Dermal	Acute-systemic effects	
Dermal	-	0,5 mg/kg bw/day (wor)
Inhalative	Long-term - systemic effects	
Innalative	Long torm avatamia offecto	0,0893 mg/kg bw/day (wor)
	Long term - systemic effects	4,95 mg/m ² (arb) 0,87 mg/m ³ (wor)
P oportion r	mass of 2.2' [mothylonohis/	4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-
(oxiran-2-		4, i-phenyleneoxymetrylene)Juloxitane and [z-({z-[4-
ylmethoxy	/)benzyl]phenoxy}methyl)ox eoxymethylene)]dioxirane	<pre>kirane and [2,2'-[methylenebis(2,1-</pre>
Oral	Long term - systemic effects	6,25 mg/kg bw/day (wor)
Dermal	Long-term - systemic effects	104,15 mg/kg bw/day (arb)
		62,5 mg/kg bw/day (wor)
Inhalative	Long term - systemic effects	2,39 mg/m³ (arb)
		8,7 mg/m³ (wor)
68609-92-2	2 Oxirane, mono((C12-14-all	kyloxy)methyl)derivs.
Oral	Acute-systemic effects	1.219 mg/kg bw/day (wor)
	Long term - systemic effects	1 mg/kg bw/day (wor)
Dermal	Acute - systemic effects	17 mg/kg bw/day (arb)
		10 mg/kg bw/day (wor)
	Long-term - systemic effects	3,9 mg/kg bw/day (arb)
		2,35 mg/kg bw/day (wor)
	Acute - local effects	68 mg/kg bw/day (arb)
		40 mg/kg bw/day (wor)
	Long-term - local effects	1,7 mg/kg/day (arb)
Inhalativa	Acute - systemic effects	1 mg/kg/day (wor)
IIIIalauve	Acute - systemic enects	29 mg/m³ (arb)
	Long term - systemic effects	7,6 mg/m³ (wor)
		13,8 mg/m³ (arb)
	Long-term - local effects	4,1 mg/m³ (wor)
		0,98 mg/m³ (arb)
	Acute - local effects	1,46 mg/m ³ (wor)
		9,8 mg/m³ (arb)
		2,9 mg/m ³ (wor)
PNECs		
	bis[4-(2,3-epoxypropoxy)ph	nenyijpropane
PNEC aqu	- · · <i>· ·</i>	
	0,006 mg/l (süß) iment 0,034 mg/kg (mee)	



	10 mg/l (sew)	
PNEC STP	0,065 mg/kg soil dw (soi)	
PNEC soil	11 mg/kg food (sec)	
PNEC oral	TT mg/kg tood (sec)	
PNEC oral Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4- (oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1- phenyleneoxymethylene)]dioxirane		
PNEC aqua	0,025 mg/l (int)	
-	0,003 mg/l (süß)	
PNEC sediment	0,029 mg/kg (mee)	
	0,294 mg/kg (süß)	
PNEC STP	10 mg/l (sew)	
PNEC soil	0,237 mg/kg soil dw (soi)	
68609-92-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivs.		
PNEC aqua	0,072 mg/l (int)	
	0,00072 mg/l (mee)	
	0,0072 mg/l (süß)	
PNEC sediment	6,677 mg/kg (mee)	
	66,77 mg/kg (süß)	
PNEC STP	10 mg/l (sew)	
PNEC soil	80,12 mg/kg soil dw (soi)	

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

8.2 Exposure controls

• Appropriate engineering controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothingWash hands before breaks and at the end

of work.

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 longerexposure use self-contained respiratory protective device. Filter A/P2

Use suitable respiratory protective device only when aerosol or mist is formed.

• Hand protection



Protective gloves

The glove material must be impermeable and resistant to the product/ the substance/ thepreparation.

Due to missing tests no recommendation to the glove material can be given for the product/ thepreparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marksof quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR Nitrile rubber, NBR

Recommended thickness of the material: $\geq 0,4$ mm **Penetration time of glove material**

The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

For the mixture of chemicals mentioned below, the penetration time must be at least > 480 minutes (Permeation according to EN 16523-1:2015: Level 6)

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore, a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection



Tightly sealed goggles

Body protection: Protective work clothing

9. Physical and chemical properties

- 1 Information on basic physical and chemical properties
- [·] General Information
- Physical state
- · Colour:
- · Odour:
- · Odour threshold:
- · Melting point/freezing point:
- Boiling point or initial boiling point and boiling range
- · Flammability
- Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:

· Auto-ignition temperature:

· Decomposition temperature:

Fluid Yellowish Characteristic Not determined. Undetermined.

>200 °C (1675-54-3 bis[4-(2,3-epoxypropoxy) phenyl] propane) Not applicable.

Not determined. >93 °C (Reaction mass of 2,2'-[methylenebis(4,1phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1phenyleneoxymethylene)]dioxirane) >230 °C (68609-92-2 Oxirane, mono ((C12-14alkyloxy) methyl)derivs) Not determined.

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· pH	Not determined.
· Viscosity:	
Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
Solubility	N I a Charles a Martine and a MCC and the card
· water:	Not miscible or difficult to mix.
 Partition coefficient n-octanol/water (log value) 	Not determined.
· Vapour pressure:	Not determined.
[•] Density and/or relative density	Not determined.
· Density at 20 °C:	1,16 g/cm ³
· Relative density	Not determined.
Vapour density	Not determined.
• 9.2 Other information	
· Appearance:	
· Form:	Fluid
 Important information on protection of 	
healthand environment, and on safety.	
· Ignition temperature:	Product is not self-igniting.
 Explosive properties: Solvent content: 	Product does not present an explosion hazard.
· VOC (EC)	0,00 %
· Change in condition	0,00 %
Evaporation rate	Not determined
Information regarding physical hazard	
classes	
Explosives	Void
· Flammable gases	Void
· Aerosols	Void Void
 Oxidising gases Gases under pressure 	Void
· Flammable liquids	Void
· Flammable solids	Void
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 Void
 Organic peroxides Corrosive to metals 	Void
Desensitised explosives Void	VOIG
Descristiscu crpiosives voiu	

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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

May produce violent reactions with bases and numerous organic substances including alcohols and amines.

- Exothermic polymerisation.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Irritant gases/vapours

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Based on available data, the classification criteria are not met

· LD/LC50 values relevant for classification:			
1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane			
Oral	LD50	15.000 mg/kg (rat)	
Dermal	LD50	23.000 mg/kg (rabbit)	
Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4- (oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1- phenyleneoxymethylene)]dioxirane			
phenyl	oxy)be eneoxy	/methylene)]dioxirane	
phenyle Oral	oxy)be eneoxy LD50	/methylene)]dioxirane >5.000 mg/kg (rat)	
phenyle Oral	oxy)be eneoxy LD50	/methylene)]dioxirane	
phenyl Oral Dermal	oxy)be eneoxy LD50 LD50	/methylene)]dioxirane >5.000 mg/kg (rat)	

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

· 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.



12. Ecological information

10/5-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	
EC50/48h	1,8 mg/l (Daphnia Magna)	
EC50/72h	11 mg/l (algae)	
LC50/96h 2 mg/l (reg)		
oxiran-2- ylmethoxy ohenylene	mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4 /)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1- eoxymethylene)]dioxirane 2,55 mg/l (Daphnia Magna)	
	1,8 mg/l (algae)	
	2,54 mg/l (fish)	
	2 Oxirane, mono((C12-14-alkyloxy)methyl)derivs.	
	1–10 mg/l (Daphnia Magna)	
	1–10 mg/l (leuciscus idus)	
12.4 Mobili	umulative potential No further relevant information available. ty in soil No further relevant information available. s of PBT and vPvB assessment	
12.5 Result PBT: Not a		
vPvB: Not a		
	crine disrupting properties	
The produc	t does not contain substances with endocrine disrupting	
section 11	or information on endocrine disrupting properties see	
	adverse effects	
	`oxic for fish I ecological information:	
General n		
Water haza	rd class 2 (German Regulation) (Self-assessment): hazardous for	
	ot allow product to reach ground water, water course or sewage	
system.		
	lrinking water if even small quantities leak into Also poisonous for fish and plankton in water	
odies.	Also poisonous for fish and plankton in water	
	uatic organisms	
. Disp	osal considerations	
1 Waste ti	reatment methods	
commend		
ist not be d	isposed together with household garbage. Do not allow product to reach sewage	
	ly tracted adhesing to official receiver.	
tem. 1st be specia	lly treated adhering to official regulations.	

[.] Uncleaned packaging:

• Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning



14. Transport information

• 14.1 UN number or ID number	
· ADR, IMDG, IATA	UN3082
 14.2 UN proper shipping name 	
· ADR · IMDG	3082 ENVIRONMENTALLY HAZARDO US SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3- epoxypropoxy)phenyl]propane) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3- epox ypropox y)phenyl] propane), MARINE POLIUTANT
	POLLUTANT Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-epoxypropoxy)phenyl]propane)
 14.3 Transport hazard class(es) 	
· ADR, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and
· Label	articles. 9
 14.4 Packing group ADR, IMDG, IATA 	III

 14.5 Environmental hazards: 	
· Marine pollutant:	Yes
	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
[·] Special marking (IATA):	Symbol (fish and tree)
[•] 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
· Hazard identification number (Kemler co	ode): 90
· EMS Number:	F-A,S-F
• Stowage Category	A
0 0 7	
14.7 Maritime transport in bulk accordin	-
IMO instruments	Not applicable.
[·] Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
(,	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 100
	ml
· Transport category	3
[·] Tunnel restriction code	(-)
·IMDG	
· Limited quantities (LQ)	51
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 30 mil
	ml
	1111



· UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE), 9, III

15. Regulation 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
- \cdot 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.

 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:
- Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be observed.

• Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2 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

H315 Causes skin irritation. H317 May cause an allergic skin reaction.H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.

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

· 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 GoodsIATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of ChemicalsEINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)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 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation -Category 2Skin Sens. 1: Skin sensitisation - Category Skin Sens. 1A: Skin sensitisation - Category 1A Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

** Data compared to the previous version altered.