Safety data sheet
according to GHS

Printing date 28.07.2026 *Version number 1* *Revision: 28.07.2026*

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

· ***Product identifier***

· ***Trade name:*** **PERI Sealing adhesive 4 component A**

· ***Relevant identified uses of the substance or mixture and uses advised against***
No further relevant information available.
· ***Application of the substance / the mixture*** Concrete adhesive

· ***Details of the supplier of the safety data sheet***
· ***Manufacturer/Supplier:***
PERI Israel
PERI Formwork Engineering Ltd.
1 Rimon St., Lev Ha'aretz Industrial Zone
P.O. Box 456
IL-4810401 Rosh Ha'ayin
Israel

· ***Informing department:***
טלפון: +972 3 9249332
פקס: +972 3 9249331
דוא"ל: info@peri.co.il
www.PERI.co.il

· ***Emergency telephone number:***
Israel Poison Information Center
Rambam Health Care Campus
6 Ha'Aliya Street
Haifa 31096

Emergency phone number +972 4 854 19 00 (24/7)

2 Hazards identification

· ***Classification of the substance or mixture***


GHS09 environment

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


GHS07

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

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· ***Additional information:***
The full text of the classification and labelling elements mentioned is given in Section 16.

· ***Label elements***
· ***GHS label elements***
The product is classified and labelled according to the Globally Harmonised System (GHS).
· ***Hazard pictograms***



GHS07 GHS09

· ***Signal word*** Warning

· ***Hazard-determining components of labelling:***
bis[4-(2,3-epoxypropoxy)phenyl]propane
Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane
· ***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.
· ***Precautionary statements***

P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· ***Additional information:***
EUH205 Contains epoxy constituents. May produce an allergic reaction.
This product contains microplastics.
· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable
· ***vPvB:*** Not applicable

3 Composition/information on ingredients

· ***Chemical characterisation: Mixtures***
· ***Description:*** Epoxy glycidyl ethers

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· ***Dangerous components:***		
CAS: 1675-54-3 EINECS: 216-823-5	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 %	25 - 50%
EC number: 701-263-0	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-((2-[4-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy) methyl)oxirane Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1A, H317	≥ 10 - < 25%

· ***Additional information*** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· ***Description of first aid measures***
· ***General information*** Instantly remove any clothing contaminated by the product.
· ***After inhalation***
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness bring patient into stable side position for transport.
· ***After skin contact***
Instantly wash with water and soap and rinse thoroughly.
Call a doctor immediately.
Wash contaminated clothing before re-use.
Discard contaminated shoes.
· ***After eye contact***
Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.
Call a doctor immediately.
· ***After swallowing***
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; instantly call for medical help.
· ***Information for doctor***
· ***Most important symptoms and effects, both acute and delayed***
No further relevant information available.
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

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5 Firefighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents***
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
· ***For safety reasons unsuitable extinguishing agents*** Water with a full water jet.
· ***Special hazards arising from the substance or mixture***
Formation of poisonous gases during heating or in fires.
Carbon monoxide and carbon dioxide
· ***Advice for firefighters***
· ***Protective equipment:***
In case of fire wear breathing equipment being independent of ambient air and suit provided full protection against chemicals.
· ***Additional information***
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures***
Keep people at a distance and stay on the windward side.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
· ***Environmental precautions:***
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, universal binders) and disposal in suitable containers.
Dispose of contaminated material as waste according to section 13.
· ***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 information on disposal.

7 Handling and storage

· ***Handling***
Avoid contact with eyes and skin.
Wash thoroughly after handling.
Wash contaminated clothing before re-use.
· ***Precautions for safe handling***
Keep containers tightly sealed.
Keep away from heat and direct sunlight.

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Ensure good ventilation/exhaustion at the workplace.
Avoid release to the environment.
· ***Information about protection against explosions and fires:*** No special measures required.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage***
· ***Requirements to be met by storerooms and containers:***
Store in cool location.
Recommended storage temperature: 10°C to 30°C.
Store only in the original container.
· ***Information about storage in one common storage facility:***
Store away from oxidising agents.
Store away from foodstuffs.
· ***Further information about storage conditions:*** Store container in a well ventilated position.
· ***Specific end use(s)*** No further relevant information available.

8 Exposure controls/personal protection

· ***Additional information about design of technical systems:***
Care for good ventilation, i.e. by local exhaust or general exhaust ventilation. If this is not sufficient to keep the concentration of solvent vapours below workplace threshold values an appropriate protective breathing apparatus shall be worn.

· ***Control parameters***
· ***Components 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.
· ***Additional information:*** The lists that were valid during the compilation were used as basis.

· ***Exposure controls***
· ***Personal protective equipment***
· ***General protective and hygienic measures***
Keep away from foodstuffs, beverages and food.
Take off all contaminated clothing immediately.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
· ***Breathing equipment:***
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
Filter A/P2.
· ***Protection of hands:***



Protective gloves.

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
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 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.

· ***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 permanent contact gloves made of the following materials are suitable:***
Fluorocarbon rubber (Viton)
In case of a layer thickness of 0,4 mm the penetration time is longer than 30 minutes.

· ***For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:***
Butyl rubber, BR
Nitrile rubber, NBR

· ***Eye protection:***



Tightly sealed safety glasses.

· ***Body protection:***



Protective work clothing.

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
· ***Form:***	Pasty
· ***Colour:***	Pigmented
· ***Odour:***	Weak
· ***pH-value:***	Not determined
· ***Change in condition***	
· ***Melting point/freezing point:***	Not determined

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· ***Initial boiling point and boiling range:***	Not determined
· ***Flash point:***	> 93 °C
· ***Auto-ignition temperature:***	Product is not selfigniting.
· ***Self-inflammability:***	Product is not selfigniting.
· ***Explosive properties:***	Product is not explosive.
· ***Critical values for explosion:***	
· ***Lower:***	Not determined
· ***Upper:***	Not determined
· ***Vapour pressure:***	Not determined
· ***Density at 20 °C***	1,77 g/cm³ (ISO 2811-1)
· ***Solubility in / Miscibility with***	
· ***Water:***	Not determined
· ***Viscosity:***	
· ***dynamic at 20 °C:***	300300 - 450400 mPas (ISO 3219)
· ***kinematic:***	Not determined
· ***Other information***	No further relevant information available.

10 Stability and reactivity

· ***Reactivity*** No further relevant information available.
· ***Chemical stability***
· ***Thermal decomposition / conditions to be avoided:*** No decomposition if used according to specifications.
· ***Possibility of hazardous reactions*** Reacts with strong acids and oxidizing agents
· ***Conditions to avoid*** No further relevant information available.
· ***Incompatible materials:*** No further relevant information available.
· ***Hazardous decomposition products:***
Organic decomposition products
Carbon monoxide and carbon dioxide
Phenol

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11 Toxicological information

· ***Information on toxicological effects***
· ***Acute toxicity***

· ***LD/LC50 values that are relevant for classification:***		
CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane		
Oral	LD50	> 2.000 mg/kg (Rat)
Dermal	LD50	> 2.000 mg/kg (Rat)

· ***Primary irritant effect:***
· ***Skin corrosion/irritation*** Caustic effect on skin and mucous membranes.
· ***Serious eye damage/irritation*** Strong caustic effect.
· ***Respiratory or skin sensitisation*** Sensitization possible by skin contact.
· ***Additional toxicological information:***
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Toxic
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· ***Repeated dose toxicity***		
Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-[4-(oxiran-2-ylmethoxy)benzyl] phenoxy)methyl)oxirane		
Oral	NOAEL (28d)	250 mg/kg bw/day (Rat)
Inhalative	NOAEC (2y)	440,79 mg/m³ (Rat)

12 Ecological information

· ***Toxicity***

· ***Aquatic toxicity:***	
CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane	
EC50 (static)	1,7 mg/l/48h (Daphnia magna) (OECD 202)
LC50 (static)	1,75 mg/l/96h (Oncorhynchus mykiss) (OECD 203)
EC50	9,4 mg/l/72h (Selenastrum capricornutum)

· ***Persistence and degradability*** The polymeric portion of the product is heavily eliminable.
· ***Behaviour in environmental systems:***
· ***Bioaccumulative potential*** No further relevant information available.
· ***Mobility in soil*** No further relevant information available.
· ***Ecotoxical effects:***
· ***Remark:*** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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· ***Additional ecological information:***
· ***General notes:***
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
· ***Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable
· ***vPvB:*** Not applicable
· ***Other adverse effects*** No further relevant information available.

13 Disposal considerations

· ***Waste treatment methods***
· ***Recommendation***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· ***Uncleaned packagings:***
· ***Recommendation:***
Dispose of packaging according to regulations on the disposal of packagings.
Non contaminated packagings can be used for recycling.
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information

· ***UN-Number***	
· ***ADR/RID, IMDG, IATA***	UN3082
· ***UN proper shipping name***	
· ***ADR/RID, IATA***	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
· ***IMDG***	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT
· ***Transport hazard class(es)***	
· ***ADR/RID***	
· ***Class***	9 (M6) Miscellaneous dangerous substances and articles.

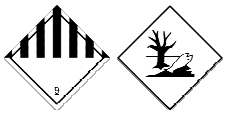
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· **Label**	9
· **IMDG, IATA**	
	
· **Class**	9 Miscellaneous dangerous substances and articles.
· **Label**	9
· **Packing group**	
· **ADR/RID, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (ADR/RID):**	Symbol (fish and tree)
· **Special marking (IATA):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Miscellaneous dangerous substances and articles.
· **Kemler Number:**	90
· **EMS Number:**	F-A,S-F
· **Stowage Category**	A
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable
· **Transport/Additional information:**	
· **ADR/RID**	
· **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
· **Transport category**	3
· **Tunnel restriction code**	(-)
· **Remarks:**	**Special provision 375:** These substances when carried in single or combination packages containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of ADR/RID provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

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· **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
· **Remarks:**	**Special provision 375:** These substances when carried in single or combination packages containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of this code provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
· **IATA**	
· **Remarks:**	**Special Provision A197**: These substances are not subject to any other provisions of these Regulations when transported in single packagings or in combination packagings with a net quantity per single or inner packaging of not more than 5 L for liquids and a net mass of not more than 5 kg per single or inner packaging for solids, provided that the packagings meet the general requirements of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
· **UN "Model Regulation":**	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Chemical safety assessment**
· **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

· **National regulations**

· **Information about limitation of use:**
Employment restrictions concerning women of child-bearing age must be observed.
Employment restrictions concerning young persons must be observed.

· **Water hazard class:**

· **Substances of very high concern (SVHC) according to REACH, Article 57**
None of the ingredients is contained.

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· ***Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Relevant phrases***
The phrases specified here are no labelling elements for the product but repeat the properties of the ingredients from section 3.

· ***Contact:***

· ***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
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)
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
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2