Safety Data Sheet
acc. to OSHA HCS

Date of issue: 07/28/2026 *Version number 1* *Reviewed on 07/28/2026*

1 Identification

· ***Other means of identification***

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

· ***Application of the substance / the mixture*** Concrete adhesive

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

· ***Manufacturer/Supplier:***
PERI Formwork Systems, Inc. USA
7135 Dorsey Run Road
Elkridge, MD 21075
United States

· ***Information department:***
Telephone: +1 (410) 712 7225
Telefax: +1 (410) 712 7080
E-Mail: info@peri-usa.com
www.PERI-USA.com

· ***Emergency telephone number:***
National Capital Poison Center, U.S.A.:
1-800-222-1222
3201 New Mexico Ave Ste 310
20016 Washington, DC
USA

2 Hazard(s) identification

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



GHS07

Skin irritation 2	H315 Causes skin irritation.
Eye irritation 2A	H319 Causes serious eye irritation.
Sensitization - skin 1	H317 May cause an allergic skin reaction.

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

· ***Label elements***

· ***GHS label elements***
The product is classified and labeled according to the Globally Harmonized System (GHS).

· ***Hazard pictograms***



GHS07

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

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· ***Signal word*** Warning

· ***Hazard-determining components of labeling:***
4,4'-Methylene diphenyldiglycidyl ether
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.
· ***Precautionary statements***

P261	Avoid breathing mist/vapors/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.

· ***Classification system:***
· ***HMIS-ratings (scale 0 - 4)***

HEALTH 2	Health = 2
FIRE 1	Fire = 1
REACTIVITY 0	Reactivity = 0

· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable
· ***vPvB:*** Not applicable

3 Composition/information on ingredients

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

· ***Dangerous components:***		
CAS: 1675-54-3	4,4'-Methylene diphenyldiglycidyl ether	30 - 40% *
	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	15 - 30% *

* Actual concentration ranges are withheld as a trade secret.

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4 First-aid measures

· ***Description of first aid measures***
· ***General information:*** Immediately remove any clothing contaminated by the product.
· ***After inhalation:***
Supply fresh air or oxygen; call for 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.
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; immediately call for medical help.
· ***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.

5 Fire-fighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:***
Foam, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· ***For safety reasons unsuitable extinguishing agents:*** Water with full jet
· ***Special hazards arising from the substance or mixture***
During heating or in case of fire poisonous gases are produced.
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 upwind.
Wear protective equipment. Keep unprotected persons away.

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Ensure adequate ventilation
· ***For non-emergency personnel*** Avoid contact with the product.
· ***For emergency responders*** Put on suitable personal protective equipment.
· ***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 contaminated material as waste according to section 13.
· ***Protective Action Criteria for Chemicals***

· ***PAC-1:***		
CAS: 1675-54-3	4,4'-Methylene diphenyldiglycidyl ether	39 mg/m3

· ***PAC-2:***		
CAS: 1675-54-3	4,4'-Methylene diphenyldiglycidyl ether	430 mg/m3

· ***PAC-3:***		
CAS: 1675-54-3	4,4'-Methylene diphenyldiglycidyl ether	2600 mg/m3

· ***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

· ***Precautions for safe handling***
Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Avoid release to the environment.
· ***Information about protection against explosions and fires:*** No special measures required.

· ***Handling:***
Avoid contact with eyes and skin.
Wash thoroughly after handling.
Wash contaminated clothing before re-use.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:***
Store in a cool location.
Recommended storage temperature: 10°C to 30°C.
Store only in the original receptacle.

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· ***Information about storage in one common storage facility:***
Store away from oxidizing agents.
Store away from foodstuffs.
· ***Further information about storage conditions:*** Store receptacle in a well ventilated area.
· ***Specific end use(s)*** No further relevant information available.

8 Exposure controls/personal protection

· ***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 creation were used as basis.

· ***Exposure controls***
· ***Appropriate engineering controls***
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.
· ***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.
Avoid contact with the eyes and skin.
· ***Breathing equipment:***
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Filter A/P2
· ***Protection of hands:***



Protective gloves

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.

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· **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 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 goggles

· **Body protection:**



Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Color:**	Pigmented
· **Odor:**	Weak
· **Melting point/Melting range:**	Undetermined
· **Boiling point/Boiling range:**	Undetermined
· **Explosion limits:**	
· **Lower:**	Not determined
· **Upper:**	Not determined
· **Flash point:**	> 93 °C (> 199.4 °F)
· **Auto igniting:**	Product is not selfigniting.
· **SADT**	
· **pH-value:**	Not determined
· **Viscosity:**	
· **Kinematic:**	Not determined
· **Dynamic at 20 °C (68 °F):**	300300 - 450400 mPas (ISO 3219)
· **Solubility in / Miscibility with**	
· **Water:**	Not determined
· **Vapor pressure:**	Not determined

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· **Density at 20 °C (68 °F):**	1.77 g/cm³ (14.771 lbs/gal) (ISO 2811-1)
· **Particle characteristics**	Not applicable
· **Other information**	
· **Appearance:**	
· **Form:**	Pasty
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **VOC USA**	
· **VOC content:**	0.00 %

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

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**		
CAS: 1675-54-3 4,4'-Methylene diphenyldiglycidyl ether		
Oral	LD50	> 2,000 mg/kg (Rat)
Dermal	LD50	> 2,000 mg/kg (Rat)

· **Primary irritant effect:**
· **on the skin:**
Causes skin irritation.
· **on the eye:**
Causes serious eye irritation.
· **Sensitization:**
May cause an allergic skin reaction.

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· ***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.
· ***Specific target organ toxicity - single exposure***
Based on available data, the classification criteria are not met.
· ***Specific target organ toxicity - repeated exposure***
Based on available data, the classification criteria are not met.
· ***Aspiration hazard*** Based on available data, the classification criteria are not met.
· ***Additional toxicological information:***

· ***Carcinogenic categories***

· ***IARC (International Agency for Research on Cancer)***		
CAS: 1675-54-3	4,4'-Methylene diphenyldiglycidyl ether	3

· ***NTP (National Toxicology Program)***
None of the ingredients is listed.

· ***OSHA-Ca (Occupational Safety & Health Administration)***
None of the ingredients is listed.

12 Ecological information

· ***Toxicity***

· ***Aquatic toxicity:***	
CAS: 1675-54-3 4,4'-Methylene diphenyldiglycidyl ether	
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.
· ***Bioaccumulative potential*** No further relevant information available.
· ***Mobility in soil*** No further relevant information available.
· ***Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable
· ***vPvB:*** Not applicable
· ***Other adverse effects***
· ***Remark:*** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
· ***Additional ecological information:***
· ***General notes:***
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.

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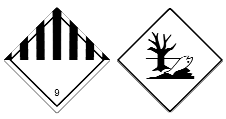
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13 Disposal considerations

· **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 recycled.
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information

· **UN-Number**	
· **DOT, ADR/RID, IMDG, IATA**	UN3082
· **UN proper shipping name**	
· **DOT**	Environmentally hazardous substance, liquid, n.o.s.
· **ADR/RID, IATA**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
· **IMDG**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT
· **Transport hazard class(es)**	
· **DOT, IMDG, IATA**	
· **Class**	9 Miscellaneous dangerous substances and articles
· **Label**	9
· **ADR/RID**	
· **Class**	9 (M6) Miscellaneous dangerous substances and articles
· **Label**	9
· **Packing group**	
· **DOT, ADR/RID, IMDG, IATA**	III

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· **Environmental hazards:**	
· **Marine pollutant:**	Yes (DOT) 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
· **Hazard identification number (Kemler code):**	90
· **EMS Number:**	F-A,S-F
· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
· **Remarks:**	Special marking with the symbol (fish and tree).
· **ADR/RID**	
· **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 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.
· **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.

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· ***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***
· ***Sara***

· ***Section 355 (extremely hazardous substances):***
None of the ingredient is listed.

· ***Section 313 (Specific toxic chemical listings):***
None of the ingredients is listed.

· ***TSCA (Toxic Substances Control Act):***
All components have the value ACTIVE.

· ***Hazardous Air Pollutants***
None of the ingredients is listed.

· ***Proposition 65***

· ***Chemicals known to cause cancer:***
None of the ingredients is listed.

· ***Chemicals known to cause reproductive toxicity for females:***
None of the ingredients is listed.

· ***Chemicals known to cause reproductive toxicity for males:***
None of the ingredients is listed.

· ***Chemicals known to cause developmental toxicity:***
None of the ingredients is listed.

· ***Cancerogenity categories***

· ***EPA (Environmental Protection Agency)***
None of the ingredients is listed.

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· ***TLV (Threshold Limit Value)***
None of the ingredients is listed.

· ***NIOSH-Ca (National Institute for Occupational Safety and Health)***
None of the ingredients is listed.

· ***Canadian substance listings:***

· ***Canadian Domestic Substances List (DSL)***
All ingredients are listed.

· ***Canadian Non-Domestic Substances List (NDSL)***
None of the ingredients is listed.

· ***Canadian Ingredient Disclosure list (limit 0.1%)***
None of the ingredients is listed.

· ***Canadian Ingredient Disclosure list (limit 1%)***
All ingredients are listed.

· ***National regulations:***

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

· ***Department issuing SDS:***

DEKRA This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

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· ***Date of preparation*** 07/28/2026
· ***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
DOT: US Department of Transportation
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)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)

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LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin irritation 2: Skin corrosion/irritation – Category 2
Eye irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - skin 1: Skin sensitisation – Category 1