

1. IDENTIFICATION**Product identifier**

Product Name **Pevalen™**

Other means of identification

Pure substance/mixture Substance

Recommended use of the chemical and restrictions on use

Application Plasticizer

Uses advised against Not identified.

Details of the supplier of the safety data sheet**Manufacturer Address**

Perstorp Oxo AB
SE-444 84 Stenungsund
Sweden
Tel. +46 303 728600
Fax. +46 303 728607
www.perstorp.com

Supplier Address

Perstorp Polyols, Inc.
600 Matzinger Road
Toledo, Ohio 43612
Tel: 419-729-5448/ 800-537-0280
www.perstorp.com

E-mail address productinfo@perstorp.com

Emergency telephone number

USA (+)1 866 519 4752 (contract no: 334101)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Label elements**Symbols/Pictograms**

Not applicable

Signal word

None

Hazard statements

Not applicable

Precautionary Statements

Not applicable

Supplementary hazard information

Not applicable

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Acute Toxicity

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	Weight-%
Polyol ester	XXX-XX-X	>97

4. FIRST AID MEASURES

Description of first aid measures

Inhalation	First aid measures not required, but get fresh air for personal comfort.
Skin contact	First aid measures not required, but wash exposed skin with soap and water for hygienic reasons.
Eye contact	First aid measures not needed. Rinse eye anyway with water.
Ingestion	Clean mouth with water. If a large quantity has been ingested or you feel unwell, get medical advice/attention.

Most important symptoms and effects, both acute and delayed

None known.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Foam, Carbon dioxide (CO₂), Extinguishing powder,

Unsuitable extinguishing media

High volume water jet.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide (CO), Carbon dioxide (CO₂).

Protective equipment and precautions for firefighters

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear safety glasses, gloves, protective clothing and rubber boots for hygienic reasons.

Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment

Prevent product from entering drains. Soak up with inert absorbent material.

Methods for cleaning up

Allow material to solidify, and scrape up. Clean contaminated surface thoroughly: Water (with cleaning agent).

Reference to other sections

See Section 7, 8, 13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment according to section 8 if risk of exposure.

Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection	If handled where risk of splashes may occur, use safety goggles.
Hand Protection	Protective gloves not really required. However, we recommend using protective gloves made of rubber. Butyl rubber.
Skin and body protection	Normal work clothes for the chemical industry (long-legged pants and sleeves).
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties****Appearance**

liquid
light yellow

Odor	Slight, Buttery
Odor threshold	No information available

Property	Value	Remarks • Method
pH	6 - 7	No information available
Melting point / freezing point	<-20 °C	
Boiling point / boiling range	408 °C	ASTM E 537-02
Flash point	248 °C	Open cup
Evaporation rate		No information available
Flammability (solid, gas)		Not applicable
Explosive limits		
Upper explosive limits		No information available
Lower explosive limits		No information available
Vapor pressure	7.3 x 10 ⁻⁷ Pa	MPBPWIN (v1.43), SPARC
Vapor density		No information available
Relative density	1.02	ISO 758-1978
Water solubility	<0.01	@ 20 °C, OECD Test No. 105: Water Solubility
Solubility(ies)		No information available
Partition coefficient	6.1	OECD Test No. 117: Partition Coefficient (n-octanol/water), HPLC Method
Autoignition temperature	360 °C	ASTM E 659-78
Decomposition temperature		No information available
Kinematic viscosity		No information available
Dynamic viscosity	37 @20 °C mPa s	ISO 3219
Explosive properties	Not explosive.	
Oxidizing properties	Not oxidizing.	
Density		No information available
Bulk density	1040 kg/m ³	@ 20 °C

Other Information

No information available

10. STABILITY AND REACTIVITY

Reactivity

There exists no specific test data for this product. For further information, see the subsequent subsections of this chapter.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

None known.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors; Carbon monoxide (CO), Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Dermal, Oral.

Symptoms related to the physical, chemical and toxicological characteristics

None known.

Numerical measures of toxicity**Acute toxicity**

Product does not present an acute toxicity hazard based on known or supplied information.

Polyol ester (XXX-XX-X)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 401: Acute Oral Toxicity	Rat	Oral	> 2000	LD0 mg/kg read-across from supporting substance (structural analogue)
OECD Test No. 402: Acute Dermal Toxicity	Rat	Dermal	> 2000	LD0 mg/kg read-across from supporting substance (structural analogue)
OECD Test No. 403: Acute Inhalation Toxicity	Rat	Inhalation	> 5.1	LC0 mg/l read-across from supporting substance (structural analogue)

Skin corrosion/irritation

Non-irritating to the skin.

Polyol ester (XXX-XX-X)			
Method	Species	Exposure route	Results:
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal	Non-irritant read-across from supporting substance (structural analogue)
QSAR (Quantitative Structure-Activity Relationship)		Dermal	Non-irritant

Serious eye damage/eye irritation

Non-irritant.

Polyol ester (XXX-XX-X)			
Method	Species	Exposure route	Results:
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye	Non-irritant read-across from supporting substance (structural analogue)

Respiratory or skin sensitization

Not a skin sensitizer.

Polyol ester (XXX-XX-X)			
Method	Species	Exposure route	Results:
OECD Test No. 406: Skin Sensitization	Guinea pig	Skin	Not a skin sensitizer read-across from supporting substance (structural analogue)
OECD Test No. 429: Skin Sensitization: Local Lymph Node Assay	Mouse	Skin	Not a skin sensitizer read-across from supporting substance (structural analogue)
QSAR (Quantitative Structure-Activity Relationship)		Skin	Not a skin sensitizer

Germ cell mutagenicity

Not mutagenic.

Polyol ester (XXX-XX-X)			
Method	Species		Results:
OECD Test No. 471: Bacterial Reverse Mutation Test		in vitro	Negative
OECD Test No. 476: In vitro Mammalian Cell Gene Mutation Test		in vitro	Negative
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test		in vitro	Negative
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test		in vivo	Negative read-across from supporting substance (structural analogue)

Carcinogenicity

No information available.

Reproductive toxicity

Is not considered hazardous to the reproduction.

Polyol ester (XXX-XX-X)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 414: Prenatal Development Toxicity Study	Rat	Oral	2000	NOAEL mg/kg bw/day No embryotoxic or teratogenic effects have been observed. read-across from supporting substance (structural analogue)

STOT - single exposure

No known effect

STOT - repeated exposure

Polyol ester (XXX-XX-X)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 407: Repeated Dose 28-day Oral Toxicity Study in Rodents	Rat	Oral	1450-1613	NOAEL mg/kg bw/day read-across from supporting substance (structural analogue)
OECD Test No. 408: Repeated Dose 90-Day Oral	Rat	Oral	1000	NOAEL mg/kg bw/day

Toxicity Study in Rodents				
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Aspiration hazard

No hazard from product as supplied.

12. ECOLOGICAL INFORMATION**Toxicity**

Low toxicity to aquatic organisms.

Polyol ester (XXX-XX-X)					
Method	Species	Exposure route	Effective dose	Exposure time	Remarks
OECD Test No. 203: Fish, Acute Toxicity Test	Brachydanio rerio	Freshwater	>150	96h	LC0 mg/l read-across from supporting substance (structural analogue)
OECD Test No. 202: Daphnia sp. Acute Immobilization Test	Daphnia magna	Freshwater	>100	48h	LC50 (lethal concentration) mg/l read-across from supporting substance (structural analogue)
OECD Test No. 211: Daphnia magna Reproduction Test	Daphnia magna	Freshwater	>135	21d	NOEC mg/l read-across from supporting substance (structural analogue)
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Scenedesmus subspicatus	Freshwater	>100	72h	LC0 mg/l read-across from supporting substance (structural analogue)

Persistence and degradability

Readily biodegradable.

Polyol ester (XXX-XX-X)			
Method	Value	Exposure time	Results:
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	103%	28d	Readily biodegradable

Bioaccumulative potential

No bioaccumulation potential.

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
Polyol ester	6.1	17*

Mobility in soil

Low mobility in soil.

Chemical Name	Log Koc
Polyol ester	4.522

Other adverse effects

None known.

Additional information

* read-across from supporting substance (non polymeric substance)

13. DISPOSAL CONSIDERATIONS

Disposal methods

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Thoroughly emptied and clean packaging may be recycled.

14. TRANSPORT INFORMATION

DOT Road transport	Not regulated
RID Rail transport	Not regulated
IMDG Sea transport	Not regulated
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available
IATA Air transport	Not regulated

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations
Not applicable.

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 0	Flammability 1	Instability 0	Physical and Chemical Properties Not available
HMIS	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Not applicable

Issue Date 02-Nov-2016
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Revision Note No information available

This safety data sheet complies with the requirements of: OSHA Hazard Communication Standard (29 CFR 1910.1200).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet