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

1.1. Product identifier

Product Name **Pevalen™**

Pure substance/mixture Substance

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

Application Plasticiser

Uses advised against Not identified.

1.3. Details of the supplier of the safety data sheet

Manufacturer

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

E-mail address productinfo@perstorp.com

1.4. Emergency telephone number

Europe (+)1 760 476 3961 (contract no: 334101)

United Kingdom (+)44 8 08 189 0979 (contract no: 334101)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
This substance is not classified as dangerous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This substance is not classified as dangerous according to regulation (EC) 1272/2008 [CLP]

Symbols/Pictograms
Not applicable

Signal word
None

Hazard statements
Not applicable

Precautionary Statements
Not applicable

2.3. Other hazards

None known. This substance does not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical Name	EC No	CAS No	REACH registration number	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polyol ester	Not available	XXX-XX-X	01-2119493810-35-0003	>97	Not classified

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. 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.

4.2. Most important symptoms and effects, both acute and delayed
None known.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Water spray (fog), Foam, Carbon dioxide (CO2), Extinguishing powder,

Unsuitable extinguishing media
High volume water jet.

5.2. Special hazards arising from the substance or mixture
Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon monoxide (CO), Carbon dioxide (CO2).

5.3. Advice for firefighters
In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear safety glasses, gloves, protective clothing and rubber boots for hygienic reasons.

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

6.3. 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).

6.4. Reference to other sections
See Section 7, 8, 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Ensure adequate ventilation. Wear personal protective equipment according to section 8 if risk of exposure.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities
Keep tightly closed in a dry and cool place.

7.3. Specific end use(s)
This information is supplied in the present Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Exposure Limits
Keep personal exposure levels below Derived No Effect Level (DNEL) and national exposure limit values (if existing).

Derived No Effect Level (DNEL) - worker
No hazard identified.

Derived No Effect Level (DNEL) - Consumer
No hazard identified.

Predicted No Effect Concentration (PNEC)
No hazard identified

8.2. Exposure controls
Appropriate engineering controls
Ensure adequate ventilation, especially in confined areas.

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 legs 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.

Environmental exposure controls
No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance
liquid
light yellow

Odour	Slight, Buttery
Odour 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
Vapour pressure	7.3 x 10-7 Pa	MPBPWIN (v1.43), SPARC
Vapour 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.	
Oxidising properties	Not oxidising.	
Density		No information available
Bulk density	1040 kg/m³	@ 20 °C

9.2. Other information
No information available.

SECTION 10: Stability and reactivity

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

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
Strong oxidising agents.

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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 sensitisation
Not a skin sensitiser.

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

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
There is no indication for any carcinogenic potential since all in vitro and in vivo mutagenicity studies are negative.

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: Pre-natal Development Toxicity Study	Rat	Oral	2000	NOAEL mg/kg bw/d 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/d read-across from supporting substance (structural analogue)
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat	Oral	1000	NOAEL mg/kg bw/d

Aspiration hazard
No hazard from product as supplied.

SECTION 12: Ecological information

12.1. 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 Algae and Cyanobacteria, Growth Inhibition Test	Scenedesmus subspicatus	Freshwater	>100	72h	LC0 mg/l read-across from supporting substance (structural analogue)

12.2. 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

12.3. Bioaccumulative potential
No bioaccumulation potential.

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

12.4. Mobility in soil
Low mobility in soil.

Chemical Name	**Log Koc**
Polyol ester	4.522

12.5. Results of PBT and vPvB assessment
This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects
None known.

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste from residues/unused products
The product is not classified as hazardous waste. Incinerate at a licensed installation.

Contaminated packaging
Thoroughly emptied and clean packaging may be recycled.

Waste codes / waste designations according to EWC / AVV
Waste from residues/unused products; 16 03 06.

Other Information
Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

ADR Road transport
14.1 UN number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing Group Not regulated
14.5 Environmental hazard Not applicable
14.6 Special precautions for user None

RID Rail transport
14.1 UN number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing Group Not regulated
14.5 Environmental hazard Not applicable

14.6 Special precautions for user None

IMDG Sea transport

14.1 UN number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing Group Not regulated
14.5 Marine pollutant Not applicable
14.6 Special precautions for user None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

IATA Air transport

14.1 UN number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing Group Not regulated
14.5 Environmental hazard Not applicable
14.6 Special precautions for user None

SECTION 15: Regulatory information

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

International Regulations
Not applicable.

European Union

Not applicable.

France

Occupational Illnesses (R-463-3, France)	Not applicable

Germany

Water hazard class (WGK)	slightly hazardous to water (WGK 1)

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

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

Issue Date 01-Nov-2016

Revision Date 31-Oct-2016

Revision Note No information available

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006, COMMISSION REGULATION (EU) No. 830/2015 of 20 May 2015.

Disclaimer
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End of Safety Data Sheet