

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product identifier**

Product Name **Pevalen™**

Other means of identification

Pure substance/mixture Substance

Recommended use of the chemical and restrictions on use

Application Plasticiser

Uses advised against Not identified.

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

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Middle East and Africa (+)1 760 476 3959 (contract no: 334101)
Asia Pacific (+)1 760 476 3960 (contract no: 334101)

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

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)

Label elements**Symbols/Pictograms**

Not applicable

Signal word

Not applicable

Hazard statements

Not applicable

Precautionary statements

Not applicable

Other hazards

None known.

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 vapours 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

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).

7. HANDLING AND STORAGE

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.

Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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

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 oxidising agents.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapours; 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)
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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.

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 Algae 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

The product is not classified as hazardous waste. Incinerate at a licensed installation.

Contaminated packaging

Thoroughly emptied and clean packaging may be recycled.

14. TRANSPORT INFORMATION

ADR 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.

National Regulations**Argentina**

Not applicable.

Egypt

Not applicable.

Malaysia

Not applicable.

Russia

Not applicable.

Singapore

Not applicable.

Thailand

Not applicable.

16. OTHER INFORMATION**Key or legend to abbreviations and acronyms used in the safety data sheet**

Not applicable

Issue Date	01-Nov-2016
Revision Date	01-Nov-2016
Revision Note	No information available

This safety data sheet complies with the requirements of: Globally Harmonised System (GHS).

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

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End of Safety Data Sheet