

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product Name **ProPhorce™ SR 710**

Pure substance/mixture Mixture

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

Application Complementary feed

Uses advised against Not identified.

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

Perstorp Waspik B.V.
Industrieweg 8
NL-5165 NH Waspik
The Netherlands
Tel. +31 (0)416 31 77 00
Fax: +31 (0)416 31 66 98
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 mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous 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

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical Name	EC No	CAS No	REACH Registration Number	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2,3-propanetriol, glycerol	200-289-5	56-81-5	No data available	35-45	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	Rinse mouth then drink plenty of water. If a large quantity has been ingested or if 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**Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.**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.

Hazardous combustion productsCarbon 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**

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid release to the environment. See Section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up**Methods for containment**

Small spill	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal
Large spill	Pump up the product into a spare container suitably labelled.

Methods for cleaning up

Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated 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).

Chemical Name	European Union	United Kingdom
1,2,3-propanetriol, glycerol 56-81-5	Not available	TWA: 10 mg/m ³ STEL: 30 mg/m ³

Derived No Effect Level (DNEL) - worker**1,2,3-propanetriol, glycerol (56-81-5)**

Type	Exposure route	DNEL	Remarks
Chronic effects, local	Inhalation	56	mg/m ³

Derived No Effect Level (DNEL) - Consumer**1,2,3-propanetriol, glycerol (56-81-5)**

Type	Exposure route	DNEL	Remarks
Chronic effects, systemic	Oral	229	mg/kg bw/d
Chronic effects, local	Inhalation	33	mg/m ³

Predicted No Effect Concentration (PNEC)**1,2,3-propanetriol, glycerol (56-81-5)**

Environmental compartment	Predicted No Effect Concentration (PNEC)	Remarks
Freshwater	0.885	mg/l
Marine water	0.088	mg/l
Intermittent	8.85	mg/l
Impact on Sewage Treatment	1000	mg/l
Freshwater sediment	3.3	mg/kg dry weight
Marine sediment	0.33	mg/kg dry weight
Soil	0.141	mg/kg dry weight

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	Wear safety glasses with side shields (or goggles).
Hand Protection	Protective gloves not really required. However, we recommend using protective gloves made of rubber.
Skin and body protection	Normal work clothes for the chemical industry (long legs and sleeves).
Respiratory protection	None under normal use conditions. In case of inadequate ventilation wear respiratory protection. Recommended filter type: A/P2.

Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

liquid
colourless, light yellow

Odour

weak characteristic

Odour threshold

No data available

Property

Value

Remarks • Method

pH

4.0 - 5.0

solution (5 %)

Melting point / freezing point

No information available

Boiling point / boiling range

Not determined

Flash point

>95 °C

(based on components)

Evaporation rate

No information available

Flammability (solid, gas)

Not applicable

Explosive limits

Upper explosive limits

Not determined

Lower explosive limits

Not determined

Vapour pressure

Not determined

Vapour density

No information available

Relative density

No information available

Water solubility

Soluble in water

Solubility(ies)

No information available

Partition coefficient

No information available

Autoignition temperature

No information available

Decomposition temperature

No information available

Kinematic viscosity

No information available

Dynamic viscosity

No information available

Explosive properties

Not explosive.

Oxidising properties

Not oxidising.

Density

1100-1200 kg/m³

Bulk density

No information available

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 use conditions.

10.4. Conditions to avoid

None under normal use conditions.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Dermal. Inhalation.

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.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	25,000.00 mg/kg
ATEmix (dermal)	25,000.00 mg/kg
ATEmix (inhalation-vapour)	52.00 mg/l

Acute oral toxicity	0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
Acute dermal toxicity	0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
Acute inhalation toxicity - Vapour	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)
Acute inhalation toxicity - dust/mist	40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

1,2,3-propanetriol, glycerol (56-81-5)				
Method	Species	Exposure route	Effective dose	Remarks
Not defined	Mouse	Oral	>10000	LD50 (lethal dose) mg/kg
Not defined	Guinea pig	Dermal	>10000	LD50 (lethal dose) mg/kg
Not defined	Rat	Inhalation	>2.75	LC50 mg/l 4h

Skin corrosion/irritation

According to the data on the components: Non-irritating to the skin.

1,2,3-propanetriol, glycerol (56-81-5)			
Method	Species	Exposure route	Results:
Not defined	Rabbit	Dermal	Non-irritant

Serious eye damage/eye irritation

According to the data on the components: Non-irritant.

1,2,3-propanetriol, glycerol (56-81-5)			
Method	Species	Exposure route	Results:
Not defined	Rabbit	Eye	Non-irritant

Respiratory or skin sensitisation

According to the data on the components: No sensitising effects known.

Germ cell mutagenicity

According to the data on the components: Not mutagenic.

1,2,3-propanetriol, glycerol (56-81-5)		
Method	Species	Results:
OECD Test No. 471: Bacterial Reverse Mutation Test	in vitro	Negative
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test	in vitro	Negative
OECD Test No. 476: In vitro Mammalian Cell Gene Mutation Test	in vitro	Negative
OECD Test No. 482: Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells in vitro	in vitro	Negative

Carcinogenicity

According to the data on the components: Not Carcinogenic.

1,2,3-propanetriol, glycerol (56-81-5)				
Method	Species	Exposure route	Effective dose	Remarks
Not defined	Rat	Oral		No carcinogenic effects have been observed. 2 years

Reproductive toxicity

According to the data on the components: Is not considered hazardous to the reproduction.

1,2,3-propanetriol, glycerol (56-81-5)				
Method	Species	Exposure route	Effective dose	Remarks
Not defined	Rat	Oral	2000	NOAEL mg/kg bw/d

STOT - single exposure Target organ effects: None known

STOT - repeated exposure Target organ effects: None known

1,2,3-propanetriol, glycerol (56-81-5)				
Method	Species	Exposure route	Effective dose	Remarks
Not defined	Rat	Oral	8000-10000	NOAEL mg/kg bw/d
Not defined	Rat	Inhalation	167	NOAEL mg/m ³

Aspiration hazard

No hazard from product as supplied.

SECTION 12: Ecological information**12.1. Toxicity**

According to the data on the components: Low toxicity to aquatic organisms.

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

1,2,3-propanetriol, glycerol (56-81-5)					
Method	Species	Exposure route	Effective dose	Exposure time	Remarks
Not defined	Salmo gairdneri	Freshwater	54000	96h	LC50 (lethal concentration) mg/l
Not defined	Daphnia magna	Freshwater	>10000	24h	EC50 (effective concentration) mg/l
Not defined	Algae Scenedesmus quadricauda	Freshwater	>10000	8d	EC3 mg/l

Not defined	Pseudomonas putida	Freshwater	>10000	16h	NOEC mg/l
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12.2. Persistence and degradability

Based on the degradability studies on the ingredients, the product is expected to be readily biodegradable.

1,2,3-propanetriol, glycerol (56-81-5)			
Method	Value	Exposure time	Results:
Not defined	94%	24h	Readily biodegradable

12.3. Bioaccumulative potential

According to the data on the components: Not likely to bioaccumulate

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
1,2,3-propanetriol, glycerol	-1.75	

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

The product is not classified as hazardous waste. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Thoroughly emptied and clean packaging may be recycled. Contaminated packaging materials must be disposed of in the same manner as the product.

Waste codes / waste designations according to EWC / AVV

Waste codes should be assigned by the user based on the application for which the product was used. Recommended Use: 16 03 06.

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
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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	Not regulated
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

REGULATION (EC) No 767/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the placing on the market and use of feed

National regulations

Germany

Water hazard class (WGK)

Water endangering class = 1 (self classification)

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

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

Issue Date	13-Oct-2017
Revision Date	13-Oct-2017
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