

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product identifier**Product Name **ProPhorce™ AC 299****Other means of identification**

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Application Premixture

Uses advised against Not identified.

Details of the supplier of the safety data sheet**Manufacturer****Perstorp Waspik B.V.**Industrieweg 8
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The Netherlands
Tel. +31 (0)416 31 77 00
www.perstorp.com**E-mail address** productinfo@perstorp.com**Emergency telephone number****Europe** (+)1 760 476 3961 (contract no: 334101)**Americas** (+)1 760 476 3962 (contract no: 334101)**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**

Acute toxicity - Oral

Category 5 - (H303)

Label elements**Symbols/Pictograms**

Not applicable

Signal word

Warning

Hazard statements

H303 - May be harmful if swallowed

Precautionary statements

P312 - Call a POISON CENTER or doctor if you feel unwell

Contains: Sodium formate

Other hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance**

Not applicable

Mixture

Chemical Name	CAS No	Weight-%
Sodium formate	141-53-7	95-100
Silica, amorphous	112926-00-8	1-5

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 required, but rinse opened eye under running water for personal comfort to avoid mechanical irritation.
Ingestion	If a large quantity has been ingested or if 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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media

Water with full jet as this can form a dust cloud.

Specific hazards arising from the chemical

Hazardous combustion products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective equipment and precautions for firefighters

No special protective equipment required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

If dusty conditions wear respiratory protective device with dust filter, gloves and protective clothing for hygienic reasons. Ensure adequate ventilation, especially in confined areas.

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

Small spill	Vacuum or sweep material and place in a disposal container
Large spill	Cover powder spill with plastic sheet or tarp to minimize spreading Vacuum or sweep material and place in a disposal container

Methods for cleaning up

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

7. HANDLING AND STORAGE

Precautions for safe handling

Use personal protection recommended in Section 8. Avoid generation of dust. Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Chemical Name	Argentina	Russia	Vietnam
Sodium formate 141-53-7	Not available	MAC: 10 mg/m ³	Not available
Silica, amorphous 112926-00-8	TWA: 10 mg/m ³	Not available	Not available
Chemical Name	Singapore	Thailand	Malaysia
Silica, amorphous 112926-00-8	PEL: 10 mg/m ³	Not available	TWA: 10 mg/m ³

Chemical Name	Argentina	Russia	Vietnam
Particulates not otherwise classified (PNOC)	TWA: 10 mg/m ³ TWA: 3 mg/m ³	Not available	Not available
Chemical Name	Singapore	Thailand	Malaysia
Particulates not otherwise classified (PNOC)	PEL: 10 mg/m ³	Not available	TWA: 10 mg/m ³ TWA: 3 mg/m ³

Appropriate engineering controls

Eyewash stations. 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. Chloroprene rubber, CR. Nitrile rubber, NBR.
Skin and body protection	Normal work clothes for the chemical industry (long-legged pants and sleeves).
Respiratory protection	Wear respiratory device with dust filter (minimum N100) in case of insufficient ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical state	powder
Appearance	crystalline
Color	white - yellow
Odor	Odorless
Odor threshold	No information available

Property

Property	Value	Remarks • Method
pH	7.5 - 8.5	solution (5 %)
Melting point / freezing point		Not determined
Boiling point / boiling range		Not determined
Flash point		Not applicable
Evaporation rate		No information available
Flammability (solid, gas)		Not determined
Explosive limits		
Upper explosive limits		Not applicable
Lower explosive limits		Not applicable

Vapor pressure		Not determined
Vapor density		No information available
Relative density		No information available
Water solubility		partially soluble
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.	
Oxidizing properties	Not oxidizing.	
Density		No information available
Bulk density	900 - 1000 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

Reacts with: Strong bases, Oxidizing substances.

Conditions to avoid

None known.

Incompatible materials

Strong bases, Oxidizing substances.

Hazardous decomposition products

None known.

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

Inhalation. Dermal.

Symptoms related to the physical, chemical and toxicological characteristics**Most important symptoms and effects, both acute and delayed**

None known

Numerical measures of toxicity**Acute toxicity****The following values are calculated based on chapter 3.1 of the GHS document**

ATEmix (oral)	3,092.80 mg/kg
ATEmix (dermal)	5,155.70 mg/kg
ATEmix (inhalation-dust/mist)	21.60 mg/l
ATEmix (inhalation-vapor)	10,309.30 mg/l
Unknown Acute Toxicity	0 % of the mixture consists of ingredient(s) of unknown toxicity
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 - vapor	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
Acute inhalation toxicity - dust/mist	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Sodium formate (141-53-7)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 401: Acute Oral Toxicity	Rat	Oral	>3000	LD50 (lethal dose) mg/kg
OECD Test No. 402: Acute Dermal Toxicity	Rat	Dermal	>2000	LD50 (lethal dose) mg/kg
EPA OTS 798.1150	Rat	Inhalation	>0.67	LC0 mg/m ³ The maximal attainable dust concentration of 0.67 mg/l produced no signs of toxicity.

Skin corrosion/irritation

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

Sodium formate (141-53-7)			
Method	Species	Exposure route	Results:
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal	Non-irritant

Serious eye damage/eye irritation

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

Sodium formate (141-53-7)			
Method	Species	Exposure route	Results:
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye	Non-irritant No classification according to GHS criteria.

Respiratory or skin sensitization

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

Sodium formate (141-53-7)			
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)

Germ cell mutagenicity

According to the data on the components: Not mutagenic.

Sodium formate (141-53-7)			
Method	Species	Exposure route	Results:
OECD Test No. 471: Bacterial Reverse Mutation Test	in vitro		Negative read-across from supporting substance (structural analogue)
OECD Test No. 476: In vitro Mammalian Cell Gene Mutation Test	in vitro		Negative read-across from supporting substance (structural analogue)
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test	in vitro		Negative read-across from supporting substance (structural analogue)
OECD Test No. 477: Genetic Toxicology: Sex-Linked Recessive Lethal Test in <i>Drosophila melanogaster</i>	in vivo		Negative read-across from supporting substance (structural analogue)

Carcinogenicity

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

Chemical Name	IARC
Silica, amorphous	Group 3 Monograph 68 [1997]

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Sodium formate (141-53-7)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Mouse	Oral	2000	NOAEL mg/kg bw/day No carcinogenic effects have been observed. read-across from supporting substance (structural analogue)

Reproductive toxicity

According to the data on the components: This product does not contain any known or suspected reproductive hazards.

Sodium formate (141-53-7)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 414: Prenatal Development Toxicity Study	rabbit	Oral	1000	NOAEL mg/kg bw/day No embryotoxic or teratogenic effects have been observed.
OECD Test No. 416: Two-Generation Reproduction Toxicity	Rat	Oral	1000	NOAEL mg/kg bw/day No impairment of fertility has been observed. No embryotoxic or teratogenic effects have been observed.

STOT - single exposure

No known effect.

STOT - repeated exposure

Sodium formate (141-53-7)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat	Oral	3138	NOAEL mg/kg bw/day read-across from supporting substance (structural analogue)

Aspiration hazard

No hazard identified.

12. ECOLOGICAL INFORMATION**Toxicity**

Low toxicity to aquatic organisms.

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

Sodium formate (141-53-7)					
Method	Species	Exposure route	Effective dose	Exposure time	Remarks
EPA OTS 797.1400	Oncorhynchus mykiss (rainbow trout)	Freshwater	>1000	96h	LC50 (lethal concentration) mg/l
EPA-660/3-75-009	Daphnia magna	Freshwater	>1000	48h	EC50 (effective concentration) mg/l
Guideline other than OECD guideline	Pseudokirchneriella subcapitata	Freshwater	>1000	72h	EC50 (effective concentration) mg/l

Persistence and degradability

According to the data on the components: Readily biodegradable

Sodium formate (141-53-7)			
Method	Value	Exposure time	Results:
OECD Test No. 306: Biodegradability in Seawater	86%	28d	Readily biodegradable

Bioaccumulative potential

According to the data on the components: Not potentially bioaccumulable.

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
Sodium formate	-1.8	

Mobility in soil

According to the data on the components: The product is not expected to adsorb to a high degree to suspended solids and sediment based upon the log Pow.

Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues/unused products

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

See section 8 for national exposure control parameters.

Malaysia

See section 8 for national exposure control parameters.

Russia

See section 8 for national exposure control parameters.

Singapore

See section 8 for national exposure control parameters.

Thailand

Not applicable

Vietnam

No information available

Other regulations, restrictions and prohibition regulations

Comply with the legislation concerning equipment and protective systems intended for use in potentially explosive atmospheres.

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

Not applicable

Issue Date	24-Feb-2021
Revision Date	23-Feb-2021
Revision Note	SDS sections updated: 1 Application, 9 color, 11 Eye irritation.

This safety data sheet complies with the requirements of: Globally Harmonized 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 for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet