

**ADDCON**

# SAFETY DATA SHEET

## Aquaform®

**ADDCON**

### 1. identification of the substance/preparation and of the company/undertaking

Date issued	14.04.2008
Product name	Aquaform®
Use of the substance/preparation	Feed additive(s)
Company name	ADDCON Nordic AS
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### 2. hazards identification

Classification	Xi R41
Hazard description	Risk for serious damage to eyes.  Wear eye/face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### 3. composition/information on ingredients

Component name	Identification	Labelling/classification	Contents
Potassium formate (1:2)	CAS no.: 20642-05-1 EC no.: 243-934-6	Xi; R41	
Silicon dioxide	CAS no.: 7631-86-9 EC no.: 262-373-8		
Column headings	CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in; %, %wt/wt, %vol/wt, %vol/vol, mg/m3, ppb, ppm, weight%, vol%		
HH/HF/HE	T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremely flammable, F = Very flammable, N = Environmental hazard		

### 4. first-aid measures

General	General advice: Remove contaminated clothing.
Inhalation	Keep patient calm, remove to fresh air, and seek medical attention.

Skin contact	Wash thoroughly with soap and water.
Eye contact	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
Ingestion	Rinse mouth immediately and then drink plenty of water, seek medical attention.
Information for health personnel	Note to physician: Treatment: Symptomatic treatment (decontamination, vital functions). In an emergency, contact the national Poisons Information Centre.

## 5. fire-fighting measures

Suitable extinguishing media	Carbon dioxide, dry extinguishing media, foam, water.
Personal protective equipment	Wear a self-contained breathing apparatus.
Other Information	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## 6. accidental release measures

Personal precautions	Ensure good ventilation. Avoid formation of dust and inhalation of dust. Use protective equipment as described in item 8.
Environmental precautions	Do not discharge into drains/surface waters/groundwater.
Methods for cleaning	Collect spill in suitable containers by mechanical means. Avoid dust formation. Containers should be labelled with the product's name and ingredients, and disposed off in accordance with regulations.

## 7. handling and storage

Handling	Breathing must be protected when large quantities are decanted without local exhaust ventilation.
Storage	Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Protect contents from the effects of light.

## 8. exposure controls/personal protection

### Exposure controls

Occupational exposure controls	No exposure standard allocated. Provide good ventilation. Eyewash facilities. Shower near the workplace. HYGIENIC ROUTINES: Wash hands before breaks and at the end of the workday.
Respiratory protection	Breathing protection if breathable aerosols/dust is formed. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).
Hand protection	Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0,4 mm), chloroprene rubber (0,5 mm), butyl rubber 80,7 mm) and other. Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the determined permeation time.
Eye protection	Safety glasses with side-shields (frame goggles) (f.e. EN 166).
Skin protection (other than of the hands)	Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).
Other Information	General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

## 9. physical and chemical properties

Physical state	Powder
Odour	Faint odour
Colour	White
Solubility in water	Soluble
Bulk density	<b>Value:</b> ~ 0,9-1,0 g/cm <sup>3</sup> (Bulk density)
Melting point/melting range	<b>Value:</b> ~ 109 °C
pH (as supplied)	<b>Value:</b> ~ 4,1-4,4 <b>Comments:</b> (50 %(m))
Decomposition temperature	<b>Value:</b> > 130 °C

## 10. stability and reactivity

Conditions to avoid	Strong oxidizing agents.
Materials to avoid	Avoid strong inorganic acids.
Hazardous decomposition products	No hazardous reactions if stored and handled as prescribed/indicated.
Stability	No hazardous decomposition products if stored and handled as prescribed/indicated.

## 11. toxicological information

### Toxicological Information:

Oral toxicity	<b>Value:</b> > 2000 mg/kg <b>Test animal species:</b> Rat/mal/female <b>Comments:</b> (Guideline 92/69/EEC, B.1)
Acute derm. tox.	<b>Value:</b> > 5,16 mg/l <b>Test animal species:</b> Rat/mal/female <b>Exposure time:</b> 4 h <b>Comments:</b> (OECD Guideline 403)
Other toxicological data	Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion. Primary skin irritation/rabbit: non-irritant (OECD Guideline 404). Primary irritations of the mucous membrane/rabbit: Risk for serious damage to eyes. (OECD Guideline 405). Sensitization/other/guinea pig: Non-sensitizing. (OECD Guideline 406). Skin sensitizing effects were not observed in animal studies.

### Other information regarding health hazards

Skin contact	Not irritating to the skin.
Eye contact	Risk of serious damage to eyes.
Teratogenic properties	No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from products of similar structure and composition.
Reproductive toxicity	The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from products of a similar structure and composition.
Mutagenicity	The substance was not mutagenic in bacteria. No mutagenic effect was found in various tests with mammalian cell culture and mammals.

## 12. ecological information

### Toxicological Information:

Acute aquatic, fish	<b>Value:</b> 3,500 mg/l <b>Method of testing:</b> OECD Guideline 203 semistatic <b>Fish, species:</b> Oncorhynchus mykiss
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	<b>Lifespan:</b> LC50 (96 h)
Acute aquatic, algae	<b>Value:</b> > 1,000 mg/l <b>Method of testing:</b> OECD Guideline static <b>Algae, species:</b> Scenedesmus subspicatus <b>Lifespan:</b> EC50 (72 h)
Acute aquatic, Daphnia	<b>Value:</b> 540 mg/l <b>Method of testing:</b> OECD Guideline 202, part 1 static <b>Daphnia, species:</b> Daphnia magna <b>Lifespan:</b> EC50 (48 h)
Aquatic, comments	The details of the toxic effect relate to the nominal concentration. Assessment of aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms.

### Other ecological information

Mobility	Dissolves readily in water.
Persistence and degradability	Readily biodegradable (according to OECD criteria). Elimination information: Test method: OECD 301D; EEC 92/69, C.4-E (aerobic), activated sludge, domestic. Method of analysis: BOD of the ThOD. Degree of elimination: >90 % (28 d).

## 13. disposal considerations

Specify the appropriate methods of disposal	All waste should be treated in accordance with national and local regulations.
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## 14. transport information

Other applicable information.	Not classified as dangerous good under transport regulations (ADR, RID, ADN, IMDG/GGVSee, ICAO/IATA).
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## 15. regulatory information

### Hazard symbol



Irritant

Composition on the label	Potassium formate (1:2):
R phrases	R41 Risk of serious damage to eyes.
S phrases	S25 Avoid contact with eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39 Wear eye/face protection.
References (laws/regulations)	Norwegian substances list (stoffliste) 2002 (Statens forurensningstilsyn, Arbeidstilsynet, Direktoratet for brann og eksplosjonsvern). (67/548 EC, appendix .1 with amendments 2001/58EEC) Norwegian occupational exposure limit values (Administrative normer for forurensning i arbeidsatmosfære, Arbeidstilsynet, best.nr. 361). (91/322/EEC, 96/94/EC, 2000/39/EC) ADR, RID, IMDG, IATA. Micromedex Tomes CPS System. Classification and labelling of hazardous chemicals, (Statens forurensningstilsyn, Arbeidstilsynet, Direktoratet for brann- og sikkerhet2002) (67/548/EC and 1999/45/EC)

Hazardous waste (SFT 2003) (91/689/EC, 94/31/EC, 2000/532/EC, 2001/118/EC, 2001/119/EC og 2001/573/EC)  
Guidelines for Health, Environment & Safety datasheets. (01.08.2002)  
(91/155/EC, 93/112/EC, 1999/45/EC item 14, 2001/58/EC).

## 16. other information

List of relevant R phrases (under headings 2 and 3).	R41 Risk of serious damage to eyes.
Sources of key data used to compile the safety datasheet	HES-datasheet and information from manufacturer.
Supplier's notes	The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed
Responsible for safety datasheet	ADDCON Nordic AS

