

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

### Acid Wash

**1.1 Product identifier:** Alfix Acid Wash

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

Sulfamic-acid based special detergent (powder).  
For cleaning of all acid resistant surfaces.

**1.3 Details of the supplier of the safety data sheet:**

Alfix A/S  
H.C. Ørsteds Vej 11-13  
DK-6000 Kolding  
Tel.: +45 75 52 90 11  
Fax: +45 75 50 40 11  
e-mail: [alfix@alfix.dk](mailto:alfix@alfix.dk)  
Contact person: Allan Nielsen / Frank Pingel

**1.4 Emergency telephone number**

+45 75 52 90 11 (Alfix)

## SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture:**

Classification according to CLP (1272/2008):

Eye Irrit. 2; H319  
Skin Irrit. 2; H315  
Aquatic Chronic 3; H412

Classification according to EEC regulations 67/548/EEC and 99/45/EEC

Xi; Irritant  
Irritating to eyes and skin. R36/38  
Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment. R52/53

**2.2 Label elements**

**Labelling according to CLP (1272/2008)**

Hazard pictogram(s):



Signal word(s):  
Warning.

Hazard statements:

H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P501 Dispose of contents/container to hazardous waste (in accordance with local/regional/national/international regulation).

**2.3 Other hazards:**

None known.

PBT/vPvB: The substances are not PBT/vPvB according to the criteria in Annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances: - Mixtures:

Substances: - Mixtures:	CAS-No.	EC-No.	Index-No.	Con-tent- %	REACH reg.No	Classification
Sulfamic acid	5329-14-6	226-218-8	016-026- 00-0	>99%	01- 2119488633- 28-xxxx	<b>CLP*:</b> Eye Irrit. 2; H319 Skin Irrit.2;H315 Aquatic Chronic 3; H412 <b>EU (67/548 or 1999/45):</b> Xi; R36/38, R52/53

CLP\*: Regulation (EC) No 1272/2008 of the European Parliament and of the Council  
For the full text of R-phrases and H-phrases see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

#### Inhalation:

Bring the injured to fresh air. **Mild cases:** Keep the injured in rest under supervision. In case of discomfort: Contact a doctor.

**Severe cases:** Move the unconscious person into recovery position and keep warm with head kept low. If breathing has stopped, begin artificial respiration. Seek medical advice or call an ambulance immediately.

#### Skin contact:

Remove contaminated clothing. Brush gently, until dust is removed. Wash then the skin carefully with water and soap. Use suitable lotion to moisturise skin. If irritation persists, seek medical advice.

#### Eye contact:

Rinse wide opened eye immediately with water or physiological saltwater for at least 15 minutes. Remove contact lenses if any. If irritation persists or recurs seek medical advice.

#### Ingestion:

Immediately rinse mouth carefully and drink plenty of water. Do not induce vomiting. Drink water or milk and seek medical advice immediately. If it is not possible to get immediately medical attention: Do not induce vomiting. Keep the head low to avoid the content from the stomach to reach the lungs. Seek medical advice.

#### Burn:

Not relevant. Product is not flammable.

### 4.2 Most important symptoms and effects, both acute and delayed:

Strong irritation in contact with eyes, skin and respiratory tract.

### 4.3 Indication of any immediate medical attention and special treatment needed:

Unconsciousness: Seek medical advice or call an ambulance immediately. Show this Material Safety Data Sheet to the doctor or at the emergency room.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

Carbon dioxide, alcohol resistant foam or powder. Do not use water fog or water spray.

### 5.2 Special hazards arising from the substance or mixture:

Product is not flammable. During a fire, harmful smoke will be developed.

### 5.3 Advice for firefighters:

Remove container if possible, or cool with water. Use breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Personal equipment: See section 8. Ventilate well.

### 6.2 Environmental precautions:

Prevent access to drains, sewers, waterways and soil. See section 12.

### 6.3 Methods and material for containment and clearing up:

Collect spillage with vacuum cleaner. Rinse carefully with water. Disposal: See section 13.

### 6.4 References to other sections:

See above.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Avoid dust generating and contact with skin and eyes. Wash immediately when skin is contaminated. Access to running water and eye rinse.

### 7.2 Conditions for safe storage, including any incompatibilities:

Keep only in the original container, tightly closed. Store in a cool, well ventilated, dry place.

Keep away from food, drinks and animal feed.

### 7.3 Specific end use(s):

See use of the substance in section 1.

**SECTION 8:  
Exposure controls/personal  
protection****8.1 Control parameters:**

Occupational Exposure Standard, Threshold limit values (2007).  
Inhalable dust 10 mg/m<sup>3</sup>

**8.2 Exposure controls:**

Appropriate engineering controls:  
None.

**8.3 Individual protection measures, such as personal protective equipment:**

**Respiratory protection:** Dust development and while mixing with water; Use dust mask with size of pore less than 5µm or mask with dust filter P2.

**Skin protection:** Use protection gloves of e.g. PVC, neoprene or vinyl. There is no time for glove penetration, therefore change gloves, when it is contaminated.

**Eye protection:** Use eye protection to avoid the product getting into the eyes

**8.4 Environmental exposure controls:**

Disposal in accordance with local authority requirements. See section 13.

**SECTION 9:  
Physical and chemical properties****9.1 Information on basic physical and chemical properties:**

**Appearance:** Powder

**Odour:** -

**Odour threshold:** -

**pH:** 0,7 (mixed with water)

**Melting point/freezing point:** -

**Initial boiling point and boiling range:** -

**Flash point:** -

**Evaporation rate:** -

**Flammability (solid, gas):** -

**Upper/lower flammability or explosive limits:** -

**Vapour pressure:** -

**Vapour density:** -

**Relative density:** -

**Solubility(ies):** Soluble

**Partition coefficient: n-octanol/water:** -

**Auto-ignition temperature:** -

**Decomposition temperature:** -

**Viscosity:** -

**Explosive properties:** -

**Oxidising properties:** -

**9.2 Other information:** -**SECTION 10:  
Stability and reactivity****10.1 Reactivity:**

Stable under normal condition

**10.2 Chemical stability:**

Stable under recommended storing.

**10.3 Possibility of hazardous reactions:**

Hazardous reaction with oxidizing agents and chlorine hypochlorous acid, hypochlorites.

**10.4 Conditions to avoid:**

High temperatures. Decomposition at 209°C.

**10.5 Incompatible materials:**

None.

**10.6 Hazardous decomposition products:**

May emit ammonia, oxides of sulfur, oxides of nitrogen, and oxides of carbon.

**SECTION 11:  
Toxicological information****11.1 Information on toxicological effects:**

Acute toxicity:

LD50 Oral – rat – 3160 mg/kg

No skin sensitization.

**Information on likely routes of exposure:** Through ingestion, inhalation and skin exposure

**11.2 Symptoms related to the physical, chemical and toxicological characteristics**

**Inhalation:**

Dust from the product may cause irritation to the respiratory tract and coughing.

Repeated inhalation of dust through long time may

cause severe lung damage.

**Skin contact:**

Mixture with water may cause strong skin irritation with claim for damage. Extended contact (4 hours) with the product mixed with water, can cause corrosive effects on not protected skin. The damage will be worsened on dry skin.

**Eye contact:**

Can in consequence cause strong eye irritation with pain and redness. Risk for severe eye damage.

**Ingestion:**

Unlikely however if ingested it will give severe irritation – possible corrosion in mouth, stomach and intestinal tract. May cause nausea, discomfort and vomiting

**Repeated and immediate effects as well as chronic effects from short and long time exposure:**

None known.

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

Sulfamic acid, CAS-no. 5329-14-6

Acute toxicity:

Fish: LC50: 70,3 mg/l (Pimephales promelas; 96h)

Bacteria: EC10: > 1000 mg/l (Pseudomonas putida; 16h)

Harmful to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

No available data.

**12.3 Bioaccumulative potential:**

No available data.

**12.4 Mobility in soil:**

No available data.

**12.5 Results of PBT and vPvB assessment:**

The substances are not PBT/vPvB according to the criteria in Annex XIII.

**12.6 Other adverse effects:**

By major spill, pH could be decreased with subsequent risk of fish dead.

**SECTION 13:  
Disposal considerations****13.1 Waste treatment methods:**

Disposal of in accordance with local authority requirements.

**13.2 EWC-code:**

060106

**SECTION 14:  
Transport information**

The product is considered as dangerous goods.

**14.1 UN-number:** 2967**14.2 UN proper shipping name:** Sulphamic Acid**14.3 Transport hazard class(es):**

ADR/RID: 8

IMDG: 8

IATA:8

**14.4 Packing group:**

ADR/RID: III

IMDG: III

IATA:III

**14.5 Environmental hazards:** No.**14.6 Special precautions for user:** None**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not relevant**SECTION 15:  
Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

No Special education/training requirements, but knowledge to of this Material Safety Data Sheet ought to be a requirement.

EU-directive 2004/42/EF

There can be local authority requirements.

**15.2 Chemical safety assessment:**

No CSA



**SECTION 16:  
Other information**

The given R-phrase and H-phrase in chapter 2 and 3 are to read as follows:

H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H412 Harmful to aquatic life with long lasting effects.

R36/38 Irritating to eyes and skin.  
R52/53 Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.