



SAFETY DATA SHEET

SUPERFOS FELF

Page: 1

Compilation date: 20/09/00

Revision date: 01/05/15

Revision No: 2

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: SUPERFOS FELF

Product code: A504

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

1.3. Details of the supplier of the safety data sheet

Company name: Confederate Chemicals Ltd

Mochdre Industrial Estate

Newtown

Powys

SY16 4LE

Tel: 01686 627158

Email: lab@confederatechemicals.co.uk

1.4. Emergency telephone number

Emergency tel: 01686 627158

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: Xn: R20/21/22; C: R35

Classification under CLP: Skin Corr. 1A: H314; Acute Tox. 3: H311; Acute Tox. 4: H302

Most important adverse effects: Harmful by inhalation, in contact with skin and if swallowed. Causes severe burns.

2.2. Label elements

Label elements:

Hazard statements: H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion

GHS06: Skull and crossbones



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SAFETY DATA SHEET

SUPERFOS FELF

Page: 2

Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+312: IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+350: IF ON SKIN: Gently wash with plenty of soap and water.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.

Label elements under CHIP:

Hazard symbols: Corrosive.



Risk phrases: R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R35: Causes severe burns.

Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ORTHOPHOSPHORIC ACID - REACH registered number(s): 01-2119485924-24

| EINECS | CAS | CHIP Classification | CLP Classification | Percent |
|-----------|-----------|---------------------|---------------------|---------|
| 231-633-2 | 7664-38-2 | C: R34 | Skin Corr. 1B: H314 | 10-30% |

SODIUM HYDROXIDE - REACH registered number(s): 01-2119457892-27

| | | | | |
|-----------|-----------|--------|---------------------|-------|
| 215-185-5 | 1310-73-2 | C: R35 | Skin Corr. 1A: H314 | 1-10% |
|-----------|-----------|--------|---------------------|-------|

SODIUM MOLYBDATE DIHYDRATE

| | | | | |
|-----------|------------|---------------|---|-------|
| 231-551-7 | 10102-40-6 | Xi: R36/37/38 | Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335 | 1-10% |
|-----------|------------|---------------|---|-------|

NITRIC ACID

| | | | | |
|-----------|-----------|---------------|---------------------------------------|-------|
| 231-714-2 | 7697-37-2 | O: R8; C: R35 | Ox. Liq. 3: H272; Skin Corr. 1A: H314 | 1-10% |
|-----------|-----------|---------------|---------------------------------------|-------|

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SAFETY DATA SHEET

SUPERFOS FELF

Page: 3

HYDROFLUORIC ACID...60%

| | | | | |
|-----------|-----------|-----------------------|---|-----|
| 231-634-8 | 7664-39-3 | T+: R26/27/28; C: R35 | Acute Tox. 2: H330; Acute Tox. 1: H310; Acute Tox. 2: H300; Skin Corr. 1A: H314 | <1% |
|-----------|-----------|-----------------------|---|-----|

Contains: The use of Dichloromethane and substances containing it are subject to the Environmental Permitting (England and Wales) Regulations 2007. Paint stripping is a Solvents Emissions Directive (SED) activity - Other Surface Cleaning. A maximum 1000kg a year of <30% Phosphoric acid, <15% Nitric Acid

Section 4: First aid measures

4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

4.2. Most important symptoms and effects, both acute and delayed

- Skin contact:** There may be irritation and redness at the site of contact.
- Eye contact:** There may be irritation and redness.
- Ingestion:** Nausea and stomach pain may occur. There may be vomiting. There may be loss of consciousness. Convulsions may occur.
- Inhalation:** Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness. Convulsions may occur.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Not applicable.

[cont...]

SAFETY DATA SHEET

SUPERFOS FELF

Page: 4

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Alcohol or polymer foam. Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Neutralise with dilute hydrochloric acid. Use industrial vacuum cleaner to remove material. Wash the spillage site with large amounts of water.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

[cont...]

SAFETY DATA SHEET

SUPERFOS FELF

Page: 5

ORTHOPHOSPHORIC ACID...100%

Workplace exposure limits:

Respirable dust

| State | 8 hour TWA | 15 min. STEL | 8 hour TWA | 15 min. STEL |
|-------|---------------------|---------------------|------------|--------------|
| EU | 1 mg/m ³ | 2 mg/m ³ | - | - |

NITRIC ACID...100%

| | | | | |
|----|---|-----------------------|---|---|
| EU | - | 2.6 mg/m ³ | - | - |
|----|---|-----------------------|---|---|

HYDROFLUORIC ACID...60%

| | | | | |
|----|---------|-------|---|---|
| EU | 1.8 ppm | 3 ppm | - | - |
|----|---------|-------|---|---|

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. Ensure safety shower is to hand.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Grey to colourless

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible in all proportions

Relative density: 1.235 - 1.260

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

[cont...]

SAFETY DATA SHEET

SUPERFOS FELF

Page: 6

10.4. Conditions to avoid

10.5. Incompatible materials

Materials to avoid: Strong alkalis.

10.6. Hazardous decomposition products

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

ORTHOPHOSPHORIC ACID...100%

| | | | | |
|-----|-----|------|------|-------|
| ORL | RAT | LD50 | 1530 | mg/kg |
|-----|-----|------|------|-------|

SODIUM HYDROXIDE

| | | | | |
|-----|-----|------|-----|-------|
| IPR | MUS | LD50 | 40 | mg/kg |
| ORL | RBT | LDLO | 500 | mg/kg |

HYDROFLUORIC ACID...60%

| | | | | |
|-----|-----|------|-----|-------|
| IPR | RAT | LDLO | 25 | mg/kg |
| SCU | FRG | LDLO | 112 | mg/kg |

Relevant effects for mixture:

| Effect | Route | Basis |
|--------------------------|-------------|-----------------------|
| Acute toxicity (harmful) | INH DRM ING | Hazardous: calculated |
| Corrosivity | OPT INH DRM | Hazardous: calculated |

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: Nausea and stomach pain may occur. There may be vomiting. There may be loss of consciousness. Convulsions may occur.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness. Convulsions may occur.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

[cont...]

SAFETY DATA SHEET

SUPERFOS FELF

Page: 7

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose of in accordance with local and national regulations.

Recovery operations: Suspended solids and dissolved resins will form part of the consent limits for disposal.

Disposal of packaging: All residues must be removed from packaging prior to disposal as controlled waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: Refer to the Manual Handling Operations Regulations 1992.

Store in accordance with HSE Guidance Note CS17.

Read in conjunction with the Technical Data sheet concerning use of the product.

Phrases used in s.2 and s.3: H272: May intensify fire; oxidiser.

H300: Fatal if swallowed.

H302: Harmful if swallowed.

H310: Fatal in contact with skin.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

[cont...]

SAFETY DATA SHEET
SUPERFOS FELF

Page: 8

H330: Fatal if inhaled.

H335: May cause respiratory irritation.

R8: Contact with combustible material may cause fire.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

R35: Causes severe burns.

R36/37/38: Irritating to eyes, respiratory system and skin.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product. This Safety Data Sheet and the formulation behind it are the property of Confederate Chemicals GRP Ltd and are used under licence by Confederate Chemicals Ltd.