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

1.1. Product identifier

Fielder Silphite

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

For use as a professional fertiliser.

1.3. Details of the supplier of the safety data sheet

Fielder UK Limited
The Paddocks
Longden
Shrewsbury
SY5 8EX

Contact the Safety Officer
Telephone: + 44 (0) 1743 860924
Email: fielderag@farming.co.uk

1.4. Emergency telephone number

For urgent medical help or advice, contact the NHS by calling 111.

For product-related advice, call + 44 (0) 0743 860924 (0900-1700 Mon-Fri excl. Bank Holidays)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008:

Skin Corr. 1B; H314: Causes severe skin burns and eye damage.

2.2. Label elements

Label elements in accordance with Regulation (EC) No 1272/2008:

Hazard pictogram:

GHS05



Signal word:

Danger

Hazard statements:

H314: Causes severe skin burns and eye damage.

Precautionary statements:

P260: Do not breathe spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351: P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a doctor or NHS 111.

P391: Collect spillage

P501: Dispose of contents/container in accordance with local/national regulations.

2.3. Other hazards

This mixture does not meet the criteria for PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components:

Chemical Name	CAS/EC/REACH Number	Annex Index	Classification in accordance with Regulation (EC) No 1272/2008	Concentration (%)
Potassium silicate	1312-76-1/ 215-199-1/ 01-2119456888-17-0007	-	Metal Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335	10-19
Potassium dihydrogen Phosphite	13977-65-6	-	Eye Irrit. 2; H319	<5
Potassium hydroxide	1310-58-3/ 215-181-3/ 01-2119487136-33	019-002-00-8	Met. Corr. 1; H290 Acute tox. 4; H302 Skin Corr. 1A; H314	<5

Please refer to section 16 for full text of hazard phrases if not displayed in section 2 or 3.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Remove from source of exposure to fresh air. Seek medical attention if symptoms persist or develop.

Skin contact: May cause burns. Rinse immediately with plenty of water. Seek medical advice IMMEDIATELY.

Eye contact: Irrigate with copious amounts of clean water for at least 10 minutes. Seek medical advice IMMEDIATELY.

Ingestion: Do not induce vomiting. Wash out mouth with water and give water to drink. Seek medical advice IMMEDIATELY.

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

Product can cause serious burns to the skin and damage to the eyes.

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

Immediate medical attention should be sought if product comes into contact with the skin or eyes.

SECTION 5: Firefighting measures

5.1. Extinguishing media

The mixture is not classified as flammable. Use extinguishing media suitable for surrounding materials, e.g. water; water spray; foam; carbon dioxide (CO₂); dry powder.

5.2. Special hazards arising from the substance or mixture

Combustion gases may cause irritation.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus and chemical protective suit. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent contact with skin and eyes. Wear protective goggles with side shields, protective gloves and protective clothing. Ensure adequate ventilation.

6.2. Environmental precautions

Do not wash excessive spillages into watercourses. If product enters watercourse contact the Environment Agency immediately. Do not burn.

6.3. Methods and material for containment and cleaning up

Use soil, sand or other absorbent material to soak up spill and place into suitable labelled containers making sure to avoid any contact with skin and eyes. Contact specialist waste disposal contractor.

6.4. Reference to other sections

See section 8 for personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke whilst using this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry atmosphere in original labelled containers. Do not store in metal or alloy packaging. Store in frost free conditions, ideally above 7°C.

7.3. Specific end use(s)

Read label before use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

There are no workplace exposure limits for this product or its components.

8.2. Exposure controls

Engineering Measures: Ensure adequate ventilation. Ensure eye wash stations are available.

Respiratory Equipment: No specific respiratory equipment needed.

Hand Protection: Gloves to BS EN374 of gauntlet type in Natural Rubber or PVC (not Nitrile) recommended for acid resistance.

Eye Protection: Protective goggles with side shields.

Skin Protection: Coveralls/apron to BS EN465/466/467

Hygiene Measures: Wash hands thoroughly after handling. Do not eat, drink or smoke whilst using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Dark brown solution

Odour: Slight, earthy

Odour threshold: Information not available

pH: 10.0-12.0 (5% solution)

Melting point/freezing point: Information not available

Initial boiling point and boiling range: Information not available

Flash point: Not applicable – product not classified as flammable

Evaporation rate: Information not available

Flammability: Not flammable

Upper/lower flammability or explosive limits: Not applicable – product not classified as flammable or explosive

Vapour pressure: Information not available

Vapour density: Information not available

Relative density: Information not available

Solubility: Information not available

Partition coefficient: n-octanol/water: Information not available

Auto-ignition temperature: Information not available

Decomposition temperature: Information not available

Viscosity: Information not available

Explosive properties: Product not classified as explosive

Oxidising properties: Product not classified as oxidising

Specific gravity: 1.12-1.20

9.2. Other information

None specified.

SECTION 10: Stability and reactivity

10.1. Reactivity

Information not available.

10.2. Chemical stability

Stable under normal conditions of storage and use.

10.3. Possibility of hazardous reactions

Possibility of corrosive reaction with metals.

10.4. Conditions to avoid

Extremes of temperature.

10.5. Incompatible materials

Metals.

10.6. Hazardous decomposition products

Possible irritant fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

This mixture has not been assessed for its toxicological effects.

Toxicological information on hazardous components:

Potassium silicate:

Acute toxicity:

Ingestion All symptoms of acute toxicity are due to high alkalinity. Material will cause irritation.
Oral LD50 (rat) >5000 mg/Kg bw

Inhalation All symptoms of acute toxicity are due to high alkalinity. Mist is irritant to the respiratory tract.
Inhalation LC50 (rat) > 2.06 g/m³

Skin contact Repeated and/or prolonged skin contact may cause slight irritation.
Dermal LD50 (rat) > 5000 mg/Kg bw

Eye contact Liquid or mist may cause discomfort and mild irritation.

Skin corrosion/
Irritation Repeated and/or prolonged skin contact may cause slight irritation.

Serious eye damage/
Irritation Liquid or mist may cause discomfort and mild irritation.

Sensitisation Not sensitising

Mutagenicity No evidence of genotoxicity. In vitro/in vivo negative.

Carcinogenicity No structural alerts.

Reproductive toxicity No evidence of reproductive toxicity or developmental toxicity.

STOT-single exposure: Not classified

STOT-repeated
exposure Not classified. NOAEL oral (rat) 159 mg/Kg bw/d

Aspiration hazard: Not classified.

Potassium hydroxide:

Inhalation Mists and vapours may cause damage to the upper respiratory tract and even to lung tissue.

Skin Contact Causes severe caustic burns to skin and eyes.

Eye Contact Causes severe damage to eyes. Can cause blindness.

Ingestion If ingested, can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, oesophagus and stomach.

Acute Toxicity Data:

POTASSIUM

HYDROXIDE LD50/oral/rat =365mg/kg (Lit data) Rabbit 5mg/24H MOD (Lit data)

SECTION 12: Ecological information

12.1. Toxicity

Product is not classified as harmful to the aquatic environment.

12.2. Persistence and degradability

Information not available.

12.3. Bioaccumulative potential

Information not available.

12.4. Mobility in soil

Information not available.

12.5. Results of PBT and vPvB assessment

Information not available.

12.6. Other adverse effects

None specified.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with local regulations via specialised waste contractor. Do not remove labels from containers.

SECTION 14: Transport information

14.1. UN number

UN3266

14.2. UN proper shipping name

Corrosive liquid, basic, inorganic N.O.S. (Potassium hydroxide E.C. 215-181-3)

14.3. Transport hazard class(es)

8

14.4. Packing group

III

14.5. Environmental hazards

Product is not classified as harmful to aquatic organisms.

14.6. Special precautions for user

Information not available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Applicable for Maritime bulk transport only. Check with carrier.

SECTION 15: Regulatory information

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

This mixture is classified and labelled in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures and Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

Chemical safety assessment not undertaken for this product.

SECTION 16: Other information

Full text of hazard statements not displayed in section 2 or 3:

H290: May be corrosive to metals.

H302: Harmful if swallowed.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

The product classifications given in section 2 were calculated using data available for the components of the mixture.

This Safety data sheet is compiled using data submitted for raw materials and practical experience. This product is intended for professional users only.

This Safety Data Sheet is prepared in compliance with Regulation 1272/2008 and Annex I of the REACH regulation as amended by Regulation 453/2010.

THE INFORMATION GIVEN HEREIN IS, TO THE BEST OF OUR KNOWLEDGE, CORRECT AND IS PRESENTED IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS GIVEN.