

**Section 1. Identification****1.1 Product Identifier** CHE3550

|                       |                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | SODIUM SULPHIDE FLAKE tech. 500g.                                                                                                                                                     |
| CAS Number            | 1313-82-2                                                                                                                                                                             |
| REACH Registration No | A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date. |
| Molecular Formula     | $\text{Na}_2\text{S}\cdot x\text{H}_2\text{O} = 78.0$ (anhyd)                                                                                                                         |

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

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

**1.3 Supplier** Scientific Laboratory Supplies

Wilford Industrial Estate  
Ruddington Lane  
Wilford  
Nottingham  
NG11 7EP  
UNITED KINGDOM

Phone 0115 9821111  
Fax 0115 9825275  
Email sales@scientific-labs.com

**1.4 Emergency Telephone** (08:00-17:00) 0115 9821111  
(24hr) 112  
(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

|                                           |                                                |
|-------------------------------------------|------------------------------------------------|
| Acute toxicity, category 3 (dermal)       | H311: Toxic in contact with skin.              |
| Skin corrosion/irritation, category 1B    | H314: Causes severe skin burns and eye damage. |
| Acute toxicity, category 4 (oral)         | H302: Harmful if swallowed.                    |
| Hazard to aquatic environment, category 1 | H400: Very toxic to aquatic life.              |

**2.2 Label elements****Labelling according to regulation 1272/2008/EC**

Signal word Danger

Hazard Pictograms



|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard Statements                    | Toxic in contact with skin. Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life.                                                                                                                                                                                                                                                                                                                                                                        |
| Precautionary Statements             | Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| Supplemental Hazard Information (EU) | Contact with acids liberates toxic gas.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Section 3. Composition

### 3.1 Substances

| Component       | CAS No.   | EEC No.   | REACH No. | Conc w/w | CLP Classification (1272/2008/CE)                               |
|-----------------|-----------|-----------|-----------|----------|-----------------------------------------------------------------|
| Sodium sulphide | 1313-82-2 | 215-211-5 |           | >59%     | Acute Tox. 3 (D),Skin Corr. 1B,Acute Tox. 4 (O),Aquatic Acute 1 |

## Section 4. First Aid

### 4.1 Description of first aid measures

|                                      |                                                                                                                                                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes                                 | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.                                             |
| Skin                                 | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. Unless contact has been slight OBTAIN MEDICAL ATTENTION |
| Inhalation                           | Remove from exposure. If material has reacted with an acid to form, sulphur dioxide, seek immediate medical assistance.                                       |
| Ingestion                            | Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION.                                                                                  |
| Personal protection for first aiders | Wear protective gloves / eye protection.                                                                                                                      |

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

No further relevant information available.

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

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| Extinguishing Media | Consider what other flammable materials are present and act accordingly. |
| Unsuitable Media    | Nothing specified.                                                       |

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

|         |                                               |
|---------|-----------------------------------------------|
| Hazards | May evolve toxic fumes if involved in a fire. |
|---------|-----------------------------------------------|

### 5.3 Advice for firefighters

|                         |                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice for firefighters | Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Section 6. Accidental Release Measures

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

|                     |                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------|
| Personal Protection | Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus. |
|---------------------|--------------------------------------------------------------------------------------------------------------------|

### 6.2 Environmental precautions

Environmental

Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

### 6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.  
Minor Spillage Wash area down with copious amounts of water.

### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

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

Well ventilated, cool, dry storage . Keep well separated from acids.

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

| Component       | CAS No    | Concentration | Workplace Exposure Limits |                         |
|-----------------|-----------|---------------|---------------------------|-------------------------|
|                 |           |               | Long Term (8hr TWA)       | Short Term 15min period |
| Sodium sulphide | 1313-82-2 | >59%          | -                         | -                       |

Exposure data source(s) No occupational exposure data currently available.

### 8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to reduce dust concentrations to a minimum.  
Hand Protection Wear gloves.  
Eye Protection Use tightly fitting chemical splash proof glasses or goggles.  
Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.  
Special Hazards No special precautions required.

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance Pale pink solid or flake.  
Odour Characteristic.  
pH 13 @ 20°C solution.  
Boiling Point Not available  
Melting Point 1180°C  
Flash Point Not applicable  
Upper Flammable Limit Not applicable  
Lower Flammable Limit Not applicable  
Auto Ignition Not applicable  
Explosive Properties No.  
Oxidising Properties No.  
Vapour Pressure Not applicable  
Relative Density 1.8560  
Water Solubility 18.6%

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

|      |                                    |                                                                               |
|------|------------------------------------|-------------------------------------------------------------------------------|
| 10.1 | Reactivity                         | No data available.                                                            |
| 10.2 | Chemical Stability                 | Stable under normal conditions                                                |
| 10.3 | Possibility of hazardous reactions | No data available.                                                            |
| 10.4 | Conditions to Avoid                | Avoid contact with acids.                                                     |
| 10.5 | Incompatible Materials             | Acids.                                                                        |
| 10.6 | Hazardous Decomposition Products   | In a fire will decompose to emit toxic and irritant fumes of sulphur dioxide. |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| Eyes                 | Contact with the solid or dust may cause burns.             |
| Skin                 | Contact with the solid or dust may cause burns.             |
| LD50 Skin            | Not available                                               |
| Ingestion            | Ingestion may result in formation of toxic sulphur dioxide. |
| LD50 Oral            | 246mg/kg Rat                                                |
| Inhalation           | Presents no significant health hazard by inhalation.        |
| LD50 Inhalation      | Not available                                               |
| TCLo                 | Not available                                               |
| Carcinogenicity      | Not considered to be a carcinogen.                          |
| Mutagenicity         | Not considered to be a mutagen.                             |
| Reproductive Effects | None identified.                                            |

## Section 12. Ecological

|      |                                  |                                                                                                                                                                                                            |
|------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12.1 | Toxicity                         | Data for soluble sulphides in general: Toxic to aquatic organisms : LD <sub>50</sub> for fish 3mg/l. Toxic hydrogen sulphide may form even in dilute acidic environments. Very toxic to aquatic organisms. |
|      | LC50 Algal                       | Not available                                                                                                                                                                                              |
|      | LC50 Crustacea                   | 2.1mg/l Daphnia magna (48 hours)                                                                                                                                                                           |
|      | LC50 Fish                        | 0.032mg/l Bluegill (Lepomis macrochirus) (96 hours)                                                                                                                                                        |
| 12.2 | Persistence and degradability    | No data available.                                                                                                                                                                                         |
| 12.3 | Bioaccumulative potential        | No data available.                                                                                                                                                                                         |
| 12.4 | Mobility in soil                 | No data available.                                                                                                                                                                                         |
| 12.5 | Results of PBT & vPvB assessment | Assessment not required.                                                                                                                                                                                   |
| 12.6 | Other adverse effects            | None known at present.                                                                                                                                                                                     |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |                                      |
|------------------------|--------------------------------------|
| Disposal Methods       | Do not dispose of as domestic waste. |
| Contaminated Packaging | Wash out containers with water.      |

## Section 14. Transport Information

|                                          |                                  |
|------------------------------------------|----------------------------------|
| <b>14.1 UN Number</b>                    | 1849                             |
| <b>14.2 Proper Shipping Name</b>         | Sodium sulphide, hydrated        |
| <b>14.3 Transport classes</b>            |                                  |
| UN classification                        | 8                                |
| Subsidiary hazard(s)                     | None                             |
| Transport category                       | 2                                |
| ADR Hazard ID                            | 80                               |
| Tunnel Restriction Code                  | E                                |
| <b>14.4 Packing Group</b>                | II                               |
| <b>14.5 Environment hazards</b>          | See section 12.                  |
| <b>14.6 Special precautions for user</b> | No special precautions required. |
| <b>14.7 Transport in bulk</b>            | Not transported in bulk.         |



## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification                                      | Acute toxicity, category 3 (dermal); Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Hazard to aquatic environment, category 1                                                                                                                                                                                                                                                                                                                                                                                                              |
| Signal word                                         | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hazard Pictograms                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Hazard Statements                                   | H311, H302, H314, H400<br>Toxic in contact with skin. Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hazard Statements (Packs of 500ml/g or less)        | H311, H302, H314, H400<br>Toxic in contact with skin. Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Precautionary Statements                            | P280, P260, P303+P361+P353, P304+P340, P305+P351+P338, P301+P330+P331<br>Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| Precautionary Statements (Packs of 500ml/g or less) | P280, P260, P303+P361+P353, P304+P340<br>Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                                                                                                                                                                                                       |
| Supplemental Hazard Information (EU)                | EUH031<br>Contact with acids liberates toxic gas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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