

**Section 1. Identification****1.1 Product Identifier** CHE5944SE

Product Name	SODIUM SULPHIDE FLAKE tech. 100g.
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** SLS Select Education

Wilford Industrial Estate  
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Wilford  
Nottingham  
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(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.
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### 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.
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## 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.
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### 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 : LDlo 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 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 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 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 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 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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