

Revision: 1.1

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## Section 1. Identification

### 1.1 Product Identifier 0631

Product Name SODIUM THIOSULPHATE 5H<sub>2</sub>O

CAS Number 10102-17-7

REACH Registration No 01-2119531537-38-XXXX

Molecular Formula  $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O} = 248.17$

### 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 Vickers Laboratories Ltd



Grangefield Industrial Estate  
Richardshaw Road  
Pudsey  
West Yorkshire  
LS28 6QW  
UNITED KINGDOM

Phone 44 0113 2362811  
Fax +44(0)113 2362703  
Email [safety@viclabs.co.uk](mailto:safety@viclabs.co.uk)  
Website [www.viclabs.co.uk](http://www.viclabs.co.uk)

### 1.4 Emergency Telephone (08:00-16:30) +44(0) 113 2362811 (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

Not classified as hazardous.

### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Not classified as hazardous.

## Section 3. Composition

### 3.1 Substances

Not classified as hazardous.

## 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. If discomfort persists<br>OBTAIN MEDICAL ATTENTION. |
| Skin                                 | Wash off skin thoroughly with water.  |
| 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.  |
| 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 | Presents no major hazards. However if contact with acid is possible, use full protective clothing and breathing apparatus. Evacuate area immediately. Only re-enter area with full protective clothing and breathing apparatus. |
|---------------------|---|

### 6.2 Environmental precautions

|               |   |
|---------------|---|
| Environmental | Presents no major environmental hazard. |
|---------------|---|

### 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.  
Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

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

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

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

Exposure data source(s) No hazardous components.

### 8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.  
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 Colourless crystals or white powder.  
Odour No specific odour.  
pH 7 @ 20°C solution.  
Boiling Point Not available  
Melting Point 48°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 1.6900  
Water Solubility Completely soluble in water.

### 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 No specific conditions.  
10.5 Incompatible Materials Reacts with acids liberating very toxic fumes of sulphur dioxide.  
10.6 Hazardous Decomposition Products May produce hazardous fumes if involved in a fire.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes Presents no significant health hazard to the eyes.  
Skin Presents no significant hazard by skin contact.  
LD50 Skin Not available  
Ingestion Presents no significant hazard by ingestion.  
LD50 Oral >2500mg/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

|  |                                   |
|--|-----------------------------------|
| <b>12.1</b> Toxicity                         | No specific environmental hazard. |
| LC50 Algal                                   | Not available                     |
| LC50 Crustacea                               | Not available                     |
| LC50 Fish                                    | Not available                     |
| <b>12.2</b> Persistence and degradability    | No data available.                |
| <b>12.3</b> Bioaccumulative potential        | No data available.                |
| <b>12.4</b> Mobility in soil                 | No data available.                |
| <b>12.5</b> Results of PBT & vPvB assessment | Assessment not required.          |
| <b>12.6</b> Other adverse effects            | None known at present.            |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |                                 |
|------------------------|---------------------------------|
| Disposal Methods       | Flush to drain.                 |
| Contaminated Packaging | Wash out containers with water. |

## Section 14. Transport Information

|  |                                  |
|--|----------------------------------|
| <b>14.1 UN Number</b>                    | Non-restricted                   |
| <b>14.2 Proper Shipping Name</b>         | Non-restricted                   |
| <b>14.3 Transport classes</b>            |                                  |
| UN classification                        | None                             |
| Subsidiary hazard(s)                     | None                             |
| Transport category                       | None                             |
| ADR Hazard ID                            | Non-restricted                   |
| Tunnel Restriction Code                  | Non-restricted                   |
| <b>14.4 Packing Group</b>                | None                             |
| <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.

Not classified as hazardous under Classification, Labelling & Packaging of Substances & Mixtures Regulations (1272/2008/CE).

### 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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