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

1.1 Product identifiers
   Product name: Sodium Dithionite
   CAS-No.: 7775-14-6

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Identified uses: Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet
   Company: Central Drug House (P) Ltd
   Address: 7/28 Varadaan House
            New Delhi-10002
            INDIA
   Telephone: +91 11 49404040
   Email: care@cdhfinechemical.com

1.4 Emergency telephone number
   Emergency Phone #: +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   Classification according to Regulation (EC) No 1272/2008
   Self-heating substances and mixtures (Category 1), H251
   Acute toxicity, Oral (Category 4), H302
   For the full text of the H-Statements mentioned in this Section, see Section 16.

   Classification according to EU Directives 67/548/EEC or 1999/45/EC
   R7
   Xn Harmful
   R22
   R31
   For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements
   Labelling according Regulation (EC) No 1272/2008
   Pictogram

   Signal word: Danger
   Hazard statement(s):
   H251 Self-heating: may catch fire.
**Section 2: Transport Information**

- **Harmful if swallowed.**
- **Precautionary statement(s)**
  - P235 + P410: Keep cool. Protect from sunlight.
- **Supplemental Hazard information (EU)**
  - EUH031: Contact with acids liberates toxic gas.

### 2.3 Other hazards - none

### Section 3: Composition/information on ingredients

#### 3.1 Substances

<table>
<thead>
<tr>
<th>Synonyms</th>
<th>Sodium dithionite</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sodium hypodisulfite</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Formula</th>
<th>Na₂O₄S₂</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>174.13 g/mol</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>7775-14-6</td>
</tr>
<tr>
<td>EC-No.</td>
<td>231-890-0</td>
</tr>
<tr>
<td>Index-No.</td>
<td>016-028-00-1</td>
</tr>
</tbody>
</table>

**Hazardous ingredients according to Regulation (EC) No 1272/2008**

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dithionite</td>
<td>Self-heat. 1; Acute Tox. 4;</td>
<td>&lt;= 100 %</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>7775-14-6</td>
<td></td>
</tr>
<tr>
<td>EC-No.</td>
<td>231-890-0</td>
<td>H251, H302, EUH031</td>
</tr>
<tr>
<td>Index-No.</td>
<td>016-028-00-1</td>
<td></td>
</tr>
</tbody>
</table>

**Hazardous ingredients according to Directive 1999/45/EC**

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dithionite</td>
<td>Xn, R 7 - R22 - R31</td>
<td>&lt;= 100 %</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>7775-14-6</td>
<td></td>
</tr>
<tr>
<td>EC-No.</td>
<td>231-890-0</td>
<td></td>
</tr>
<tr>
<td>Index-No.</td>
<td>016-028-00-1</td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

### Section 4: First aid measures

#### 4.1 Description of first aid measures

**General advice**
Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**
Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**
Flush eyes with water as a precaution.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3 Indication of any immediate medical attention and special treatment needed
no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
no data available

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
Addition of small amounts of water may cause self ignition.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Components with workplace control parameters

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
**Personal protective equipment**

**Eye/face protection**  
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**  
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**  
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**  
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**  
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**SECTION 9: Physical and chemical properties**

9.1 **Information on basic physical and chemical properties**

- **Appearance**
  - Form: powder
  - Colour: white
- **Odour**
  - no data available
- **Odour Threshold**
  - no data available
- **pH**
  - 7.0 - 9 at 50 g/l at 20 °C
- **Melting point/freezing point**
  - 300 °C
- **Initial boiling point and boiling range**
  - no data available
- **Flash point**
  - no data available
- **Evaporation rate**
  - no data available
- **Flammability (solid, gas)**
  - no data available
- **Upper/lower flammability or explosive limits**
  - no data available
- **Vapour pressure**
  - no data available
- **Vapour density**
  - no data available
- **Relative density**
  - 2,500 g/cm3 at 20 °C
- **Water solubility**
  - no data available
- **Partition coefficient: n-octanol/water**
  - log Pow: < -4.7
- **Auto-ignition temperature**
  - The substance or mixture is classified as self heating with the category 1.
- **Decomposition temperature**
  - no data available
r) Viscosity
   no data available
s) Explosive properties
   no data available
t) Oxidizing properties
   no data available

9.2 Other safety information
   Bulk density  1.250 kg/m3

SECTION 10: Stability and reactivity

10.1 Reactivity
   no data available

10.2 Chemical stability
   May decompose on exposure to air and moisture.
   Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
   no data available

10.4 Conditions to avoid
   Do not allow water to enter container because of violent reaction. Avoid moisture. Heat.

10.5 Incompatible materials
   Strong oxidizing agents, acids, Water

10.6 Hazardous decomposition products
   Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Sodium oxides
   Other decomposition products - no data available
   In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

   Acute toxicity
   no data available

   Skin corrosion/irritation
   no data available

   Serious eye damage/eye irritation
   no data available

   Respiratory or skin sensitisation
   no data available

   Germ cell mutagenicity
   no data available

   Carcinogenicity
   IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

   Reproductive toxicity
   no data available

   Specific target organ toxicity - single exposure
   no data available

   Specific target organ toxicity - repeated exposure
   no data available

   Aspiration hazard
   no data available
Additional Information  
RTECS: Not available  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information  

12.1 Toxicity  
Toxicity to fish  
LC50 - Leuciscus idus (Golden orfe) - 10 - 100 mg/l - 96 h  
Toxicity to daphnia and other aquatic invertebrates  
EC50 - Daphnia magna (Water flea) - 10 - 100 mg/l - 48 h  

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 and vPvB assessment  
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  

12.6 Other adverse effects  
Toxic to aquatic life.  
no data available  

SECTION 13: Disposal considerations  

13.1 Waste treatment methods  
Product  
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.  
Contaminated packaging  
Dispose of as unused product.  

SECTION 14: Transport information  

14.1 UN number  
ADR/RID: 1384  
IMDG: 1384  
IATA: 1384  

14.2 UN proper shipping name  
ADR/RID: SODIUM DITHIONITE  
IMDG: SODIUM DITHIONITE  
IATA: Sodium dithionite  

14.3 Transport hazard class(es)  
ADR/RID: 4.2  
IMDG: 4.2  
IATA: 4.2  

14.4 Packaging group  
ADR/RID: II  
IMDG: II  
IATA: II  

14.5 Environmental hazards  
ADR/RID: no  
IMDG Marine pollutant: no  
IATA: no  

14.6 Special precautions for user  
no data available  

SECTION 15: Regulatory information  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity
EUH031 Contact with acids liberates toxic gas.
H251 Self-heating: may catch fire.
H302 Harmful if swallowed.
Self-heat. Self-heating substances

Full text of R-phrases referred to under sections 2 and 3

Xn Harmful
R 7 May cause fire.
R22 Harmful if swallowed.
R31 Contact with acids liberates toxic gas.

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.