

# Material Safety Data Sheet



**SODIUM DITHIONITE PURIFIED**

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 18380**

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name** : SODIUM DITHIONITE PURIFIED  
**Product code** : 18380  
**Identification of the product** : SODIUM DITHIONITE PURIFIED  
**CAS No** : 7775-14-6  
**EC Index-No.** : 016-028-00-1  
**EC No.** : 231-890-0  
**Synonyms** : Sodium hydrodisulphite, Vatrolite

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

**Identified uses** : Laboratory chemicals, Manufacture of substances

### 1.3. Details of the supplier of the safety data sheet

#### Company identification

MOLYCHEM INDIA LLP  
Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)  
Tel: +91 22 4066 8111, 2205 7772 .  
Email : [info@molychem.net](mailto:info@molychem.net)  
Works: Plot No. B/9, Badlapur M.I.D.C.,  
OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E),  
Dist.-Thane-421 503.

### 1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Self-Heating Substances and Mixtures, H251  
Category 1  
Acute toxicity (oral), Category 4 H302

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Self-heating: may catch fire. Harmful if swallowed.

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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Hazard pictograms (CLP)



GHS07 GHS02

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H251 - Self-heating: may catch fire  
H302 - Harmful if swallowed.

Precautionary statements (CLP)

: P235 - Keep cool.  
P410 - Protect from sunlight.

## 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## 3. Composition/information on ingredients

### 3.1. Substances

Name : SODIUM DITHIONITE PURIFIED

CAS-No : 7775-14-6

### 3.2. Mixtures

Not applicable

## 4. First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice  
First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water.  
First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Rinse immediately with plenty of water.  
First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell

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

Symptoms/effects after ingestion : Harmful if swallowed.

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

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water spray. Dry powder. Foam.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Self-heating: may catch fire  
Explosion hazard : Heating may cause an explosion.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## 6. Accidental release measures

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

General measures : No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.  
No open flames, no sparks, and no smoking.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/ personal protection"  
Emergency procedures : Stop release.

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product. Clear up rapidly by scoop or vacuum. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Take any precaution to avoid mixing with combustibles... Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Always wash hands after handling the product.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Maintain air gap between stacks/pallets.

Storage conditions : Keep in fireproof place. Keep container tightly closed. Store in a dry place. Keep cool. Protect from sunlight. Store away from other materials. Keep cool. Protect from sunlight. Store in a well-ventilated place

Storage away from : Direct sunlight. Heat. Sparks. Overheating. Open flame.

### 7.3. Specific end use(s)

No additional information available

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

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## 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

No additional information available

## 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

Eye protection : Chemical goggles or safety glasses  
Hand protection : Wear protective gloves  
Skin protection : Wear suitable protective clothing  
Respiratory protection : Wear appropriate mask.  
Thermal hazards : No additional information available

### 8.2.3 Environmental exposure controls

Avoid release to the environment

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : Solid  
Appearance : crystals or crystalline powder  
Molecular mass : 174.11 g/mol  
Colour : White to off white  
Odour : sulphur dioxide  
Odour threshold : Not available  
pH : 7 – 9 at 20°C  
Melting point : 52 °C  
Freezing point : Not applicable  
Boiling point : Not available  
Flash point : Not applicable  
Auto-ignition temperature : ≈ 190  
Decomposition temperature : > 100 °C  
Flammability : Non flammable.  
Vapour pressure : Not available  
Relative vapour density at 20 °C : 3.6

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Relative density : Not available  
Density : 2.38 g/cm<sup>3</sup>  
Solubility : Water: 18.2 g/100ml at 20°C - Soluble in water  
Ethanol: - Slightly soluble  
Partition coefficient n-octanol/water (Log Pow) : -4.7  
Viscosity, kinematic : Not applicable  
Explosive limits : Not applicable

## 9.2. Other information

No additional information available

## 10. Stability and reactivity

### 10.1. Reactivity

Self-heating: may catch fire.

### 10.2. Chemical stability

Self-heating: may catch fire.

### 10.3. Possibility of hazardous reactions

Highly reactive material. Contact with acids liberates toxic gas.

### 10.4. Conditions to avoid

Direct sunlight. Heat. Sparks. Overheating. Open flame.

### 10.5. Incompatible materials

Acids.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified  
Skin corrosion/irritation : Not classified  
Additional information : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## 12. Ecological information

### 12.1. Toxicity

Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## 13. Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	: Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container.

## 14. Transport information

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In accordance with ADR / IMDG / IATA / ADN / RID

## 14.1. UN number

UN-No. (ADR) : UN 1384  
UN-No. (IMDG) : UN 1384  
UN-No. (IATA) : UN 1384  
UN-No. (ADN) : UN 1384  
UN-No. (RID) : UN 1384

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : SODIUM DITHIONITE (SODIUM HYDROSULPHITE)  
Proper Shipping Name (IMDG) : SODIUM DITHIONITE (SODIUM HYDROSULPHITE)  
Proper Shipping Name (IATA) : Sodium dithionite  
Proper Shipping Name (ADN) : SODIUM DITHIONITE (SODIUM HYDROSULPHITE)  
Proper Shipping Name (RID) : SODIUM DITHIONITE (SODIUM HYDROSULPHITE)  
Transport document description (ADR) : UN 1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE), 4.2, II, (D/E)  
Transport document description (IMDG) : UN 1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE), 4.2, II  
Transport document description (IATA) : UN 1384 Sodium dithionite, 4.2, II  
Transport document description (ADN) : UN 1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE), 4.2, II  
Transport document description (RID) : UN 1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE), 4.2, II

## 14.3. Transport hazard class(es)

### ADR

Transport hazard class(es) (ADR) : 4.2  
Danger labels (ADR) : 4.2

### IMDG

Transport hazard class(es) (IMDG) : 4.2  
Danger labels (IMDG) : 4.2

### IATA

Transport hazard class(es) (IATA) : 4.2  
Danger labels (IATA) : 4.2

### ADN

Transport hazard class(es) (ADN) : 4.2  
Danger labels (ADN) : 4.2

### RID

Transport hazard class(es) (RID) : 4.2  
Danger labels (RID) : 4.2

## 14.4. Packing group

Packing group (ADR) : II

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Packing group (IMDG) : II  
Packing group (IATA) : II  
Packing group (ADN) : II  
Packing group (RID) : II

## 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

## 14.6. Special precautions for user

### Overland transport

Classification code (ADR) : S4  
Limited quantities (ADR) : 0  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P410, IBC06  
Mixed packing provisions (ADR) : MP14  
Portable tank and bulk container instructions (ADR) : T3  
Portable tank and bulk container special provisions (ADR) : TP33  
Tank code (ADR) : SGAN  
Vehicle for tank carriage : AT  
Transport category (ADR) : 2  
Hazard identification number (Kemler No.) : 40  
Tunnel restriction code (ADR) : D/E  
EAC code : 1S

### Transport by sea

Limited quantities (IMDG) : 0  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P410  
IBC packing instructions (IMDG) : IBC06  
Tank instructions (IMDG) : T3  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-J  
Stowage category (IMDG) : E  
MFIAG-No : 135

### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Forbidden  
PCA limited quantity max net quantity : Forbidden

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(IATA)

PCA packing instructions (IATA) : 467  
PCA max net quantity (IATA) : 15kg  
CAO packing instructions (IATA) : 470  
CAO max net quantity (IATA) : 50kg  
ERG code (IATA) : 4L

### **Inland waterway transport**

Classification code (ADN) : S4  
Limited quantities (ADN) : 0  
Excepted quantities (ADN) : E2  
Equipment required (ADN) : PP  
Number of blue cones/lights (ADN) : 0

### **Rail transport**

Classification code (RID) : S4  
Limited quantities (RID) : 0  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P410, IBC06  
Mixed packing provisions (RID) : MP14  
Portable tank and bulk container instructions (RID) : T3  
Portable tank and bulk container special provisions (RID) : TP33  
Tank codes for RID tanks (RID) : SGAN  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE10  
Hazard identification number (RID) : 40

## **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

## **15. Regulatory information**

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

#### **15.1.1 EU-Regulations**

Not listed on REACH Annex XVII  
Not listed on REACH Annex XIV (Authorisation List)  
Not listed on the REACH Candidate List  
Not listed on the PIC list (Regulation EU 649/2012)  
Not listed on the POP list (Regulation EU 2019/1021)  
Not listed on the Ozone Depletion list (Regulation EU 1005/2009)  
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.1.2. National regulations

### Germany

Water hazard class (WGK)

: WGK 1, Slightly hazardous to water  
(Classification according to AwSV; ID No. 1170).

Hazardous Incident Ordinance (12. BImSchV)

: Is not subject of the Hazardous Incident Ordinance  
(12. BImSchV)

### Netherlands

SZW-lijst van kankerverwekkende stoffen

: The substance is not listed

SZW-lijst van mutagene stoffen

: The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding

: The substance is not listed

SZW-lijst van reprotoxische stoffen –

: The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen –

: The substance is not listed

Ontwikkeling

### Denmark

Danish National Regulations

: Young people below the age of 18 years are not  
allowed to use the product

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 16. Other information

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand
COD	Chemical oxygen demand
COD	Chemical oxygen demand
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level

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EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties
<b>Full text of H- and EUH-statements</b>	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety Data Sheet (SDS), EU This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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