

 <b>LABORATORY REAGENTS &amp; FINE CHEMICALS</b>	<b>SAFETY DATA SHEET SDS/MSDS</b>	Page : 1
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<b>IRON (II) SULPHATE 0.1M (0.1N) STANDARDIZED SOLUTION MSDS CAS:</b>		<b>R160A</b>

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

### 1.1. Product identifier

Trade name : IRON (II) SULPHATE 0.1M (0.1N) STANDARDIZED SOLUTION  
Product code : R160A

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

Use : Industrial. For professional use only.

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

Company identification : LOBA CHEMIE PVT.LTD.  
107 Wode House Road, Jehangir Villa, Colaba  
400005 Mumbai INDIA  
Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com  
Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

### 1.4. Emergency telephone number

Phone nr : + 91 22 6663 6663 (9:00am - 6:00 pm) [ Office hours ]

## 2. Hazards identification -DSD

### 2.1. Classification of the substance or mixture

#### Classification EC 67/548 or EC 1999/45

Not classified.

#### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319  
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

### 2.2. Label elements

#### Labelling EC 67/548 or EC 1999/45

Not classified.

Symbol(s) : None.  
R Phrase(s) : None.  
S Phrase(s) : None.

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## 2. Hazards identification -DSD (continued)

Contains : Water - Iron (II) sulfate

### Labelling Regulation EC 1272/2008 (CLP)

#### Hazard pictograms



Signal words : Warning

Hazard statements : H319 : Causes serious eye irritation.  
H315 : Causes skin irritation.

#### Precautionary statements

- **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.  
P264: Wash thoroughly after handling.
- **Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.  
P332+P313: If skin irritation occurs : Get medical advice.  
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P363: Wash contaminated clothing before reuse.

Contains : Water - Iron (II) sulfate

### 2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## 3. Composition/information on ingredients

Substance / Preparation : Preparation.

Hazardous component(s) : This product is not hazardous but contains hazardous components.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Iron (II) sulfate	> 10 < 15 %	7720-78-7	231-753-5	026-003-00-7	----	Xn; R22 Xi; R36/38 ----- Acute Tox. 4 (oral) _ H302 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315
Water	> 75 < 99 %	7732-18-5	231-791-2	-----	----	Not classified (DSD/DPD) ----- Not classified (GHS)

## 4. First aid measures

### 4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest.

Skin contact : Specific treatment (see on this label). Wash contaminated clothing before reuse.  
Wash with plenty of soap and water. If skin irritation occurs : Get medical advice.

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#### 4. First aid measures (continued)

**Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.

**Ingestion** : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.

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

**Symptoms relating to use** : Causes serious eye irritation.  
Causes skin irritation.

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

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

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

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

##### 5.3. Advice for fire-fighters

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

#### 6. Accidental release measures

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

**For emergency responders** : Equip cleanup crew with proper protection.  
Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

##### 6.2. Environmental precautions

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## 6. Accidental release measures (continued)

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

**Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

## 7. Handling and storage

### 7.1. Precautions for safe handling

**Handling** : Wash thoroughly after handling.  
Wash thoroughly after handling.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

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

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

**Specific end use(s)** : None.

## 8. Exposure controls/personal protection

### 8.1. Exposure controls

**Personal protection**



**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear approved mask.
- **Hand protection** : Wear protective gloves.
- **Skin protection** : Wear suitable protective clothing.

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**8. Exposure controls/personal protection (continued)**

- Eye protection : Chemical goggles or safety glasses.
- Others : When using, do not eat, drink or smoke.

**8.2. Control parameters**

Occupational Exposure Limits : No data available.

**9. Physical and chemical properties**

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

Physical state at 20 °C	: Liquid.
Colour	: Colorless
Odour	: Characteristic.
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: No data available.
Decomposition point [°C]	: N/A
Critical temperature [°C]	: No data available.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: N/A
Flash point [°C]	: No data available.
Boiling point [°C]	: N/A
Initial boiling point [°C]	: No data available.
Final boiling point [°C]	: No data available.
Evaporation rate	: N/A
Vapour pressure [20°C]	: No data available.
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: N/A
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: No data available.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /s]	: No data available.

**9.2. Other information**

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### 9. Physical and chemical properties (continued)

**Explosive properties** : N/A  
**Explosion limits - upper [%]** : No data available.  
**Explosion limits - lower [%]** : No data available.  
**Oxidising properties** : No data available.

### 10. Stability and reactivity

#### 10.1. Reactivity

**Reactivity** : Not established.

#### 10.2. Chemical stability

**Chemical stability** : Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

**Hazardous reactions** : Not established.

#### 10.4. Conditions to avoid

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

**Materials to avoid** : Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.

### 11. Toxicological information

#### 11.1. Information on toxicological effects

**Toxicity information** : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

#### **Acute toxicity**

- **Inhalation** : Based on available data, the classification criteria are not met.
  - **Dermal** : Based on available data, the classification criteria are not met.
  - **Ingestion** : Based on available data, the classification criteria are not met.
- Corrosion** : Based on available data, the classification criteria are not met.

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### 11. Toxicological information (continued)

<b>Irritation</b>	: Causes serious eye irritation. Causes skin irritation.
<b>Sensitization</b>	: Based on available data, the classification criteria are not met.
<b>Mutagenicity</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	: Based on available data, the classification criteria are not met.
<b>Toxic for reproduction</b>	: Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	: Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	: Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	: Based on available data, the classification criteria are not met.

### 12. Ecological information

#### 12.1. Toxicity

<b>Toxicity information</b>	: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.
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#### 12.2. Persistence - degradability

<b>Persistence - degradability</b>	: Biodegradable.
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#### 12.3. Bioaccumulative potential

<b>Bioaccumulative potential</b>	: Not established.
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#### 12.4. Mobility in soil

<b>Mobility in soil</b>	: Not established.
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#### 12.5. Results of PBT and vPvB assessment

<b>Results of PBT and vPvB assessment</b>	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
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#### 12.6. Other adverse effects

<b>Environmental precautions</b>	: Avoid release to the environment.
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### 13. Disposal considerations

#### 13.1. Waste treatment methods

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### 13. Disposal considerations (continued)

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

### 14. Transport information

#### 14.1. Land transport (ADR-RID)

**General information** : Unregulated.

#### 14.2. Sea transport (IMDG) [English only]

**General information** : Unregulated.

#### 14.3. Air transport (ICAO-IATA) [English only]

**General information** : Unregulated.

### 15. Regulatory information

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

**Safety, health and environmental regulations/legislation specific for the substance or mixture** : Ensure all national/local regulations are observed.

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

#### 15.2. Chemical Safety Assessment

**Chemical Safety Assessment** : It has not been carried out.

### 16. Other information

**Revision** : Revision - See : \*

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.  
vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**List of relevant R phrases (heading 3)** : R22 : Harmful if swallowed.  
R36/38 : Irritating to eyes and skin.

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#### 16. Other information (continued)

**List of full text of H-statements in section 3** : H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.

**Further information** : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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