

### MATERIAL SAFETY DATA SHEET (MSDS)

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

##### 1.1. Product identifier

Product form : Substance  
:  
CAS No : 27610-45-3  
Product code : 06021

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

###### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

###### 1.2.2. Uses advised against

No additional information available

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

Labogens Fine Chem Industries  
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,  
Ludhiana Pb. (141007)  
+91 9316777775, +91 7707855700  
[sales@labogens.com](mailto:sales@labogens.com) - [www.Labogens.com](http://www.Labogens.com)

##### 1.4. Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

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

Corrosive to metals, H290  
Category 1  
Acute toxicity (oral), H302  
Category 4  
Skin corrosion/irritation, H314  
Category 1B  
Hazardous to the aquatic H400  
environment — Acute  
Hazard, Category 1

Full text of classification categories and H statements : see section 16

###### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22  
C; R34

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N; R50  
R31

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H290 - May be corrosive to metals  
H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H400 - Very toxic to aquatic life

Precautionary statements (CLP) : P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : SODIUM SULPHIDE AR  
CAS No : 27610-45-3

Full text of R- and H-phrases: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

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|                                       |                                                                                                                                                                              |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after skin contact | : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.                                 |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. |
| First-aid measures after ingestion    | : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.                    |

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

|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| Symptoms/injuries                 | : Causes severe skin burns and eye damage. |
| Symptoms/injuries after ingestion | : Harmful if swallowed.                    |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

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

No additional information available

### 5.3. Advice for firefighters

|                                |                                                                        |
|--------------------------------|------------------------------------------------------------------------|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. |
|--------------------------------|------------------------------------------------------------------------|

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

|                      |                                   |
|----------------------|-----------------------------------|
| Emergency procedures | : Evacuate unnecessary personnel. |
|----------------------|-----------------------------------|

#### 6.1.2. For emergency responders

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Protective equipment | : Use personal protective equipment as required. |
| Emergency procedures | : Stop release.                                  |

### 6.2. Environmental precautions

Very toxic to aquatic life.

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

|                         |                                        |
|-------------------------|----------------------------------------|
| Methods for cleaning up | : Clear up rapidly by scoop or vacuum. |
|-------------------------|----------------------------------------|

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Do not breathe dust/fume/gas/mist/vapours/spray.                                                                                 |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling. Wash contaminated clothing before reuse. |

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

|                    |                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------|
| Technical measures | : Comply with applicable regulations.                                                                      |
| Storage conditions | : Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture. |

### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

|                          |                                     |
|--------------------------|-------------------------------------|
| Hand protection          | : protective gloves                 |
| Eye protection           | : Chemical goggles or face shield   |
| Skin and body protection | : Wear suitable protective clothing |
| Respiratory protection   | : Wear respiratory protection       |

### SECTION 9: Physical and chemical properties

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

|                                            |                           |
|--------------------------------------------|---------------------------|
| Physical state                             | : Solid                   |
| Colour                                     | : Yellow.                 |
| Odour                                      | : No data available       |
| Odour threshold                            | : No data available       |
| pH                                         | : No data available       |
| Relative evaporation rate (butylacetate=1) | : No data available       |
| Melting point                              | : No data available       |
| Freezing point                             | : No data available       |
| Boiling point                              | : No data available       |
| Flash point                                | : No data available       |
| Auto-ignition temperature                  | : No data available       |
| Decomposition temperature                  | : No data available       |
| Flammability (solid, gas)                  | : No data available       |
| Vapour pressure                            | : No data available       |
| Relative vapour density at 20 °C           | : No data available       |
| Relative density                           | : No data available       |
| Density                                    | : 1.86 g/cm <sup>3</sup>  |
| Solubility                                 | : Water: Soluble in water |
| Log Pow                                    | : No data available       |
| Viscosity, kinematic                       | : No data available       |
| Viscosity, dynamic                         | : No data available       |
| Explosive properties                       | : No data available       |

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Oxidising properties : No data available

Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Harmful if swallowed.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life.

#### 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

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

### SECTION 14: Transport information

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

#### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 1849 |
| UN-No. (IMDG) | : 1849 |
| UN-No.(IATA)  | : 1849 |
| UN-No.(ADN)   | : 1849 |
| UN-No. (RID)  | : 1849 |

#### 14.2. UN proper shipping name

|                                       |                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------|
| Proper Shipping Name (ADR)            | : SODIUM SULPHIDE, HYDRATED                                                            |
| Proper Shipping Name (IMDG)           | : SODIUM SULPHIDE, HYDRATED                                                            |
| Proper Shipping Name (IATA)           | : SODIUM SULPHIDE, HYDRATED                                                            |
| Proper Shipping Name (ADN)            | : SODIUM SULPHIDE, HYDRATED                                                            |
| Proper Shipping Name (RID)            | : SODIUM SULPHIDE, HYDRATED                                                            |
| Transport document description (ADR)  | : UN 1849 SODIUM SULPHIDE, HYDRATED, 8, II, (E), ENVIRONMENTALLY HAZARDOUS             |
| Transport document description (IMDG) | : UN 1849 SODIUM SULPHIDE, HYDRATED, 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IATA) | : UN 1849 SODIUM SULPHIDE, HYDRATED, 8, II, ENVIRONMENTALLY HAZARDOUS                  |

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Transport document description (ADN) : UN 1849 SODIUM SULPHIDE, HYDRATED, 8, II, ENVIRONMENTALLY HAZARDOUS  
Transport document description (RID) : UN 1849 SODIUM SULPHIDE, HYDRATED, 8, II, ENVIRONMENTALLY HAZARDOUS

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 8  
Danger labels (ADR) : 8



#### IMDG

Transport hazard class(es) (IMDG) : 8  
Danger labels (IMDG) : 8



#### IATA

Transport hazard class(es) (IATA) : 8  
Hazard labels (IATA) : 8



#### ADN

Transport hazard class(es) (ADN) : 8  
Danger labels (ADN) : 8



#### RID

Transport hazard class(es) (RID) : 8  
Danger labels (RID) : 8



### 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 | : Yes                                    |
| Marine pollutant              | : Yes                                    |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### - Overland transport

|                                                           |                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| Classification code (ADR)                                 | : C6                                                                                  |
| Special provision (ADR)                                   | : 523                                                                                 |
| Limited quantities (ADR)                                  | : 1kg                                                                                 |
| Excepted quantities (ADR)                                 | : E2                                                                                  |
| Packing instructions (ADR)                                | : P002, IBC08                                                                         |
| Special packing provisions (ADR)                          | : B4                                                                                  |
| Mixed packing provisions (ADR)                            | : MP10                                                                                |
| Portable tank and bulk container instructions (ADR)       | : T3                                                                                  |
| Portable tank and bulk container special provisions (ADR) | : TP33                                                                                |
| Tank code (ADR)                                           | : SGAN, L4BN                                                                          |
| Vehicle for tank carriage                                 | : AT                                                                                  |
| Transport category (ADR)                                  | : 2                                                                                   |
| Special provisions for carriage - Packages (ADR)          | : V11                                                                                 |
| Hazard identification number (Kemler No.)                 | : 80                                                                                  |
| Orange plates                                             | :  |
| Tunnel restriction code (ADR)                             | : E                                                                                   |
| EAC code                                                  | : 2X                                                                                  |

#### - Transport by sea

|                                 |          |
|---------------------------------|----------|
| Limited quantities (IMDG)       | : 1 kg   |
| Excepted quantities (IMDG)      | : E2     |
| Packing instructions (IMDG)     | : P002   |
| IBC packing instructions (IMDG) | : IBC08  |
| IBC special provisions (IMDG)   | : B2, B4 |
| Tank instructions (IMDG)        | : T3     |
| Tank special provisions (IMDG)  | : TP33   |
| EmS-No. (Fire)                  | : F-A    |
| EmS-No. (Spillage)              | : S-B    |
| Stowage category (IMDG)         | : A      |
| Segregation (IMDG)              | : SG35   |
| MFAG-No                         | : 153    |

#### - Air transport

|                                |        |
|--------------------------------|--------|
| PCA Excepted quantities (IATA) | : E2   |
| PCA Limited quantities (IATA)  | : Y844 |



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|                                              |        |
|----------------------------------------------|--------|
| PCA limited quantity max net quantity (IATA) | : 5kg  |
| PCA packing instructions (IATA)              | : 859  |
| PCA max net quantity (IATA)                  | : 15kg |
| CAO packing instructions (IATA)              | : 863  |
| CAO max net quantity (IATA)                  | : 50kg |
| ERG code (IATA)                              | : 8L   |

### - Inland waterway transport

|                                   |          |
|-----------------------------------|----------|
| Classification code (ADN)         | : C6     |
| Special provisions (ADN)          | : 523    |
| Limited quantities (ADN)          | : 1 kg   |
| Excepted quantities (ADN)         | : E2     |
| Equipment required (ADN)          | : PP, EP |
| Number of blue cones/lights (ADN) | : 0      |

### - Rail transport

|                                                           |               |
|-----------------------------------------------------------|---------------|
| Classification code (RID)                                 | : C6          |
| Special provision (RID)                                   | : 523         |
| Limited quantities (RID)                                  | : 1kg         |
| Excepted quantities (RID)                                 | : E2          |
| Packing instructions (RID)                                | : P002, IBC08 |
| Special packing provisions (RID)                          | : B4          |
| Mixed packing provisions (RID)                            | : MP10        |
| Portable tank and bulk container instructions (RID)       | : T3          |
| Portable tank and bulk container special provisions (RID) | : TP33        |
| Tank codes for RID tanks (RID)                            | : SGAN, L4BN  |
| Transport category (RID)                                  | : 2           |
| Special provisions for carriage – Packages (RID)          | : W11         |
| Colis express (express parcels) (RID)                     | : CE10        |
| Hazard identification number (RID)                        | : 80          |

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

SODIUM SULPHIDE AR is not on the REACH Candidate List

SODIUM SULPHIDE AR is not on the REACH Annex XIV List

#### 15.1.2. National regulations

#### Germany

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12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

### Denmark

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

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

|                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                               |
| Aquatic Acute 1     | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Met. Corr. 1        | Corrosive to metals, Category 1                                 |
| Skin Corr. 1B       | Skin corrosion/irritation, Category 1B                          |
| H290                | May be corrosive to metals                                      |
| H302                | Harmful if swallowed                                            |
| H314                | Causes severe skin burns and eye damage                         |
| H400                | Very toxic to aquatic life                                      |
| R22                 | Harmful if swallowed                                            |
| R31                 | Contact with acids liberates toxic gas                          |
| R34                 | Causes burns                                                    |
| R50                 | Very toxic to aquatic organisms                                 |
| C                   | Corrosive                                                       |
| N                   | Dangerous for the environment                                   |
| Xn                  | Harmful                                                         |

*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*