# SULPHURIC ACID 0.5MOL/L (1N) FOR 500 ML SOLUTION MSDS

CAS No: MSDS



## **MATERIAL SAFETY DATA SHEET (MSDS)**

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

1.1. Product identifier

Product form : Mixture

:

Product code : 0292B

#### 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

LOBA CHEMIE PVT.LTD.

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400005 Mumbai - INDIA
T +91 22 6663 6663 - F +91 22 6663 6699
info@lobachemie.com - www.lobachemie.com

### 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (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]

Skin corrosion/irritation, H315

Category 2

Serious eye damage/eye H319

irritation, Category 2

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

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

No additional information available

www.lobachemie.com 15/04/2016 1/10

Safety Data Sheet

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary statements (CLP) : P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

#### 2.3. Other hazards

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	50 - 75	Not classified
Sulphuric acid	(CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8	25 - 50	Skin Corr. 1A, H314 Eye Dam. 1, H318

Full text of H-phrases: see section 16

#### **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.

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.

www.lobachemie.com 15/04/2016 2/10

### Safety Data Sheet

First-aid measures after ingestion

: Rinse mouth. 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 after skin contact

: Causes skin irritation.

Symptoms/injuries after eye contact

: Causes serious eye irritation.

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### **Extinguishing media** 5.1.

Suitable extinguishing media Unsuitable extinguishing media

: Carbon dioxide. Dry powder. Foam. Water spray. : Do not use extinguishing media containing water.

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

No additional information available

#### **Advice for firefighters**

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory

protection.

#### SECTION 6: Accidental release measures

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

#### 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** 

: Ventilate area.

### **Environmental precautions**

Avoid release to the environment.

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

Methods for cleaning up

: On land, sweep or shovel into suitable containers. Collect spillage.

#### 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 vapours. Avoid contact with skin and eyes.

Hygiene measures

: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving

work.

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

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

#### 7.3. Specific end use(s)

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. **Control parameters**

No additional information available

www.lobachemie.com 15/04/2016 3/10

### Safety Data Sheet

#### 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 : Liquid

Colour : Clear Colorless.

Odour : odourless.

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 g/cm<sup>3</sup>

Solubility : Water: Miscible in water

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

www.lobachemie.com 15/04/2016 4/10

Safety Data Sheet

### Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

#### **Chemical stability**

Stable under normal conditions.

#### Possibility of hazardous reactions

No additional information available

#### 10.4. **Conditions to avoid**

Direct sunlight.

#### Incompatible materials

No additional information available

#### **Hazardous decomposition products**

Thermal decomposition generates: Corrosive vapours.

#### **SECTION 11: Toxicological information**

#### Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

: Not classified Reproductive toxicity Specific target organ toxicity (single

exposure)

: Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

#### **SECTION 12: Ecological information**

### **Toxicity**

No additional information available

www.lobachemie.com 15/04/2016 5/10

Safety Data Sheet

#### 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) : 2796 UN-No. (IMDG) : 2796 UN-No.(IATA) : 2796 UN-No.(ADN) : 2796 UN-No. (RID) : 2796

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : SULPHURIC ACID
Proper Shipping Name (IMDG) : SULPHURIC ACID
Proper Shipping Name (IATA) : BATTERY FLUID, ACID
Proper Shipping Name (ADN) : SULPHURIC ACID
Proper Shipping Name (RID) : SULPHURIC ACID

Transport document description (ADR) : UN 2796 SULPHURIC ACID, 8, II, (E)

Transport document description (IMDG) : UN 2796 SULPHURIC ACID (SULPHURIC ACID WITH 51% OR LESS ACID ), 8, II

Transport document description (IATA) : UN 2796 BATTERY FLUID, ACID, 8, II

Transport document description (ADN) : UN 2796 SULPHURIC ACID, 8, II

Transport document description (RID) : UN 2796 SULPHURIC ACID, 8, II

#### 14.3. Transport hazard class(es)

#### ADR

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

www.lobachemie.com 15/04/2016 6/10

### Safety Data Sheet



#### **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
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

www.lobachemie.com 15/04/2016 7/10

Safety Data Sheet

#### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : C1 Limited quantities (ADR) : 1L Excepted quantities (ADR) : E2

: P001, IBC02 Packing instructions (ADR) Mixed packing provisions (ADR) : MP15 : T8

Portable tank and bulk container

instructions (ADR)

Portable tank and bulk container special : TP2

provisions (ADR)

Tank code (ADR) : L4BN Vehicle for tank carriage : AT : 2 Transport category (ADR) Hazard identification number (Kemler No.)

Orange plates

80 2796

Tunnel restriction code (ADR) : E EAC code : 2R

#### - Transport by sea

: 1 L Limited quantities (IMDG) Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 : IBC02 IBC packing instructions (IMDG) IBC special provisions (IMDG) : B20 Tank instructions (IMDG) : T8 Tank special provisions (IMDG) : TP2 : F-A EmS-No. (Fire) : S-B EmS-No. (Spillage) Stowage category (IMDG) : B MFAG-No : 154

#### - Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y840 PCA limited quantity max net quantity : 0.5L

(IATA)

: 851 PCA packing instructions (IATA) PCA max net quantity (IATA) : 1L CAO packing instructions (IATA) : 855 CAO max net quantity (IATA) : 30L ERG code (IATA) : 8L

## - Inland waterway transport

Classification code (ADN) : C1 Limited quantities (ADN) : 1L Excepted quantities (ADN) : E2 Carriage permitted (ADN) : T Equipment required (ADN) : PP, EP Number of blue cones/lights (ADN) : 0

www.lobachemie.com 15/04/2016 8/10

### Safety Data Sheet

#### - Rail transport

Classification code (RID) : C1 Limited quantities (RID) : 1L Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP15

Portable tank and bulk container : T8

instructions (RID)

Portable tank and bulk container special : TP2

provisions (RID)

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE6
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

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

### 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (Classification according

to AwSV, Annex 1)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (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**

www.lobachemie.com 15/04/2016 9/10

Safety Data Sheet

### Full text of H- and EUH-phrases:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation

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

www.lobachemie.com 15/04/2016 10/10