CAS-No.: 12135-76-1 MSDS



# **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. : 12135-76-1
Product code : 00028

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

# 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.

107 Wode House Road, Jehangir Villa, Colaba
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]

Flammable liquids, H226
Category 3
Skin corrosion/irritation, H314
Category 1B
Hazardous to the aquatic H400
environment — Acute

Hazard, Category 1

Full text of H statements : see section 16

# Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

C; R34 R10 R31

www.lobachemie.com 13/02/2019 1/10

Safety Data Sheet

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)







GHS02

GHS05

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

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. 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/doctor

#### 2.3. Other hazards

No additional information available

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

# 3.1. Substances

Name : AMMONIUM SULPHIDE SOLUTION IN WATER EXTRA PURE

CAS-No. : 12135-76-1

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

# 3.2. Mixtures

Not applicable

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a POISON CENTER/doctor.

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/doctor.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

www.lobachemie.com 13/02/2019 2/10

Safety Data Sheet

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

Symptoms/effects : Causes severe skin burns and eye damage.

#### 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 (CO2).

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

# 5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

# 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

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open

flames. No smoking.

#### 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

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills

with inert solids, such as clay or diatomaceous earth as soon as possible.

## 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 : Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse.

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

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container tightly closed. Store in original container. Store in a dry place. Store

in a well-ventilated place.

Incompatible materials : Heat sources.

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

No additional information available

www.lobachemie.com 13/02/2019 3/10

Safety Data Sheet

# **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 : Liquid

Molecular mass : 68.14 g/mol Colour : Clear Yellow.

Odour : ammonia odour.

Odour threshold : No data available

pH : 9.5 (45% aqueous solution)

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 : 32.2 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapour.

Vapour pressure : 600 hPa at 20 °C

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 0.997 g/cm³

Solubility : Water: Infinitely soluble

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

www.lobachemie.com 13/02/2019 4/10

# Safety Data Sheet

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : 0.04 - 0.46 vol %

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

#### 10.3. Possibility of hazardous reactions

Highly reactive material. Contact with acids liberates toxic gas.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates: Corrosive vapours.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

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

pH: 9.5 (45% aqueous solution)

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

pH: 9.5 (45% aqueous solution)

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

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

www.lobachemie.com 13/02/2019 5/10

Safety Data Sheet

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 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

Additional information

: Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

: Handle empty containers with care because residual vapours are flammable.

# **SECTION 14: Transport information**

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

#### 14.1. UN number

UN-No. (ADR) : 2683 UN-No. (IMDG) : 2683 UN-No. (IATA) : 2683 UN-No. (ADN) : 2683 UN-No. (RID) : 2683

# 14.2. UN proper shipping name

Proper Shipping Name (ADR) : AMMONIUM SULPHIDE SOLUTION Proper Shipping Name (IMDG) : AMMONIUM SULPHIDE SOLUTION

Proper Shipping Name (IATA) : Ammonium sulphide solution

Proper Shipping Name (ADN) : AMMONIUM SULPHIDE SOLUTION Proper Shipping Name (RID) : AMMONIUM SULPHIDE SOLUTION

Transport document description (ADR) : UN 2683 AMMONIUM SULPHIDE SOLUTION, 8 (3+6.1), II, (D/E),

**ENVIRONMENTALLY HAZARDOUS** 

Transport document description (IMDG) : UN 2683 AMMONIUM SULPHIDE SOLUTION, 8 (3+6.1), II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 2683 Ammonium sulphide solution, 8 (3+6.1), II, ENVIRONMENTALLY

**HAZARDOUS** 

www.lobachemie.com 13/02/2019 6/10

# Safety Data Sheet

Transport document description (ADN) : UN 2683 AMMONIUM SULPHIDE SOLUTION, 8 (3+6.1), II, ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (RID) : UN 2683 AMMONIUM SULPHIDE SOLUTION, 8 (3+6.1), II, ENVIRONMENTALLY

**HAZARDOUS** 

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

#### **ADR**

Transport hazard class(es) (ADR) : 8 (3, 6.1)

Danger labels (ADR) : 8, 3, 6.1



#### **IMDG**

Transport hazard class(es) (IMDG) : 8 (3, 6.1)
Danger labels (IMDG) : 8, 3, 6.1



#### IATA

Transport hazard class(es) (IATA) : 8 (3, 6.1) Hazard labels (IATA) : 8, 3, 6.1



#### ADN

Transport hazard class(es) (ADN) : 8 (3, 6.1)
Danger labels (ADN) : 8, 3, 6.1



# RID

Transport hazard class(es) (RID) : 8 (3, 6.1)
Danger labels (RID) : 8, 3, 6.1



# 14.4. Packing group

Packing group (ADR) : II

www.lobachemie.com 13/02/2019 7/10

# Safety Data Sheet

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

#### 14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

: TP2

# 14.6. Special precautions for user

# - Overland transport

Classification code (ADR) : CFT Limited quantities (ADR) : 11 Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC01
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container : T7

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : L4BN
Vehicle for tank carriage : FL
Transport category (ADR) : 2

Special provisions for carriage - Loading,

unloading and handling (ADR)

Special provisions for carriage - Operation : S

Special p (ADR)

Hazard identification number (Kemler No.) : 86

Orange plates

86 2683

: SG35, SG68

: CV13, CV28

Tunnel restriction code (ADR) : D/E
EAC code : •2W
APP code : A(fl)

#### - Transport by sea

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC01

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP2, TP13

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-C

Stowage category (IMDG) : B

Stowage and handling (IMDG) : SW1, H2

MFAG-No : 132

- Air transport

Segregation (IMDG)

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840

www.lobachemie.com 13/02/2019 8/10

# Safety Data Sheet

PCA limited quantity max net quantity : 0.5L

(IATA)

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

#### - Inland waterway transport

Classification code (ADN) : CFT
Special provisions (ADN) : 802
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, EX, TOX, A

Ventilation (ADN) : VE01, VE02

Number of blue cones/lights (ADN) : 2

#### - Rail transport

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

Packing instructions (RID) : P001, IBC01

Mixed packing provisions (RID) : MP15

Portable tank and bulk container : T7

instructions (RID)

Portable tank and bulk container special : TP2

provisions (RID)

Tank codes for RID tanks (RID) : L4BN Transport category (RID) : 2

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW28

Colis express (express parcels) (RID) : CE6
Hazard identification number (RID) : 86

# 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

AMMONIUM SULPHIDE SOLUTION IN WATER EXTRA PURE is not on the REACH Candidate List AMMONIUM SULPHIDE SOLUTION IN WATER EXTRA PURE is not on the REACH Annex XIV List

## 15.1.2. National regulations

# Germany

www.lobachemie.com 13/02/2019 9/10

# Safety Data Sheet

Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water (Classification

according to AwSV; ID No. 297)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

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

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen - Ontwikkeling

: The substance is not listed

: The substance is not listed

#### **Denmark**

Class for fire hazard : Class II-1 Store unit : 5 liter

Classification remarks : R10 <H226;H314;H400>; Emergency management guidelines for the storage of

flammable liquids must be followed

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-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
R10	Flammable
R31	Contact with acids liberates toxic gas
R34	Causes burns
С	Corrosive

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 13/02/2019 10/10