# AMMONIUM HYDROXIDE 18-20% SOLUTION AR 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

Trade name : Ammonium hydroxide 18-20% solution AR

Product code : 01231

Synonyms : Ammonia Solution

### 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. 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]

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

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 21/03/2018 1/10

### Safety Data Sheet

#### 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) : 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 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

Not applicable

#### 3.2. Mixture

| Name                              | Product identifier                      | %               | Classification according<br>to Regulation (EC) No.<br>1272/2008 [CLP] |
|-----------------------------------|---|-----------------|---|
| Water                             | (CAS No) 7732-18-5<br>(EC no) 231-791-2 | 106.82 -<br>110 | Not classified  |
| AMMONIUM HYDROXIDE 0.35% SOLUTION | (CAS No) 1336-21-6                      | 0.054 -<br>0.08 | Not classified  |

#### **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. Give oxygen or artificial respiration if necessary. When symptoms occur: go into open air and

ventilate suspected area.

First-aid measures after skin contact : Take off contaminated clothing. Gently wash with plenty of soap and water. If skin

irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

www.lobachemie.com 21/03/2018 2/10

#### Safety Data Sheet

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. If you feel unwell, seek medical advice.

#### 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.

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

Treat symptomatically.

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

#### Extinguishing media

Suitable extinguishing media : Water spray.

: Do not use a heavy water stream. Foam. dry chemical powder. Unsuitable extinguishing media

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

No additional information available

#### **Advice for firefighters**

No additional information available

#### **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.

#### For emergency responders 6.1.2.

: Use personal protective equipment as required. Protective equipment **Emergency procedures** : Ventilate area. Evacuate unnecessary personnel.

### **Environmental precautions**

Very toxic to aquatic life.

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

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

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

#### Reference to other sections

No additional information available

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.

: Wash hands and other exposed areas with mild soap and water before eating. Hygiene measures

drinking or smoking and when leaving work.

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

Storage conditions : Store in original container. 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 21/03/2018 3/10

### Safety Data Sheet

#### 8.2. Exposure controls

Hand protection : protective gloves

Skin and body protection : Wear fire/flame resistant/retardant clothing

Respiratory protection : Wear appropriate mask

#### **SECTION 9: Physical and chemical properties**

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

Physical state : Liquid

Colour : Clear colourless.

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  $^{\circ}\text{C}$  : No data available

Relative density : No data available

Solubility : No data available

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

#### 9.2. Other information

No additional information available

www.lobachemie.com 21/03/2018 4/10

Safety Data Sheet

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

#### 10.1. Reactivity

No additional information available

#### 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.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No additional information available

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

#### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

| ATE CLP (oral) | 500 mg/kg bodyweight |
|----------------|----------------------|
|                |                      |

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 : Not classified

exposure)

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

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

#### 12.1. Toxicity

No additional information available

www.lobachemie.com 21/03/2018 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

No additional information available

#### SECTION 14: Transport information

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

#### 14.1. UN number

UN-No. (ADR) : 2672 UN-No. (IMDG) : 2672 UN-No.(IATA) : 2672 UN-No.(ADN) : 2672 UN-No. (RID) : 2672

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : AMMONIA SOLUTION
Proper Shipping Name (IMDG) : AMMONIA SOLUTION
Proper Shipping Name (IATA) : AMMONIA SOLUTION
Proper Shipping Name (ADN) : AMMONIA SOLUTION
Proper Shipping Name (RID) : AMMONIA SOLUTION

Transport document description (ADR) : UN 2672 AMMONIA SOLUTION, 8, III, (E), ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 2672 AMMONIA SOLUTION, 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 2672 AMMONIA SOLUTION, 8, III, ENVIRONMENTALLY HAZARDOUS : UN 2672 AMMONIA SOLUTION, 8, III, ENVIRONMENTALLY HAZARDOUS : UN 2672 AMMONIA SOLUTION, 8, III, ENVIRONMENTALLY HAZARDOUS : UN 2672 AMMONIA SOLUTION, 8, III, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

#### **ADR**

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

www.lobachemie.com 21/03/2018 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) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

#### 14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

www.lobachemie.com 21/03/2018 7/10

#### Safety Data Sheet

#### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : C5 Special provision (ADR) : 543 Limited quantities (ADR) : 5L : E1 Excepted quantities (ADR)

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19 Portable tank and bulk container : T7

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

: TP1

Tank code (ADR) : L4BN Vehicle for tank carriage : AT Transport category (ADR) : 3 Special provisions for carriage - Packages : V12

(ADR)

Hazard identification number (Kemler No.)

Orange plates

80 2672

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

#### - Transport by sea

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 IBC special provisions (IMDG) : B11 Tank instructions (IMDG) : T7 Tank special provisions (IMDG) : TP1 EmS-No. (Fire) : F-A : S-B EmS-No. (Spillage) Stowage category (IMDG) : A

: SW2. SW5 Stowage and handling (IMDG) Segregation (IMDG) : SG35

#### - Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y841 PCA limited quantity max net quantity : 1L

(IATA)

PCA packing instructions (IATA) : 852 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 856 : 60L CAO max net quantity (IATA) Special provision (IATA) : A64 ERG code (IATA) : 8L

#### - Inland waterway transport

Classification code (ADN) : C5 Special provisions (ADN) : 543

www.lobachemie.com 21/03/2018 8/10

### Safety Data Sheet

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

#### - Rail transport

Classification code (RID) : C5
Special provision (RID) : 543
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container : T7

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP1

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Special provisions for carriage – Packages : W12

(RID)

Colis express (express parcels) (RID) : CE8
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

www.lobachemie.com 21/03/2018 9/10

Safety Data Sheet

#### 15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: Other information**

#### Full text of 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 |
| Skin Corr. 1        | Skin corrosion/irritation, Category 1                           |
| H302                | Harmful if swallowed  |
| H314                | Causes severe skin burns and eye damage                         |
| H400                | Very toxic to aquatic life                                      |

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 21/03/2018 10/10