

No. 809, Chuhua Branch Road, Fengxian District, Shanghai

# SAFETY DATA SHEET

Version: v1

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

### 1.1 Product identifiers

Product name : Ammonia solution

Product Number : A140739
Brand : aladdin

CAS-No. : 7664-41-7(Dioxane)

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

Identified uses : Laboratory chemicals, Manufacture of substances.

# 1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd

Address : 36 Xinjinqiao Road, Shanghai

Telephone : 400-620-6333
Fax : no data available

# 1.4 Emergency telephone number

Emergency Phone : 0532-83889090

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids : Category 2

Serious eye damage/eye irritation: Category 2A

Carcinogenicity: Category 2

Specific target organ toxicity - single exposure: Category 3 (respiratory tract irritation)

Short-term (acute) aquatic hazard: Category 2

# 2.2 GHS Label elements, including precautionary statements

**Pictogram** 

**(4)** 



Signal word

Danger

Hazard statement(s)



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H225	Highly Flammable liquid and vapor
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H401	Toxic to aquatic life

Precautionary statement(s)

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. -

No smoking.

P202 Do not handle until all safety precautions have been read and understood.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting/.../] equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands [and ...] thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN

with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P337+P313 IF eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use ... to extinguish.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to an approved waste disposal plant.

P301+P312+P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing.Call a

POISON CENTER or doctor. if you feel unwell.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

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

### 3.2 Mixtures

Synonyms : Ammonia



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Formula : NH3 Molecular weight : 17.03

Component	Classification	Concentration
Ammonia solution		
CAS-No.: 7664-41-7 EC-No.: 231-635-3	Flam. Gas 2; Press. Gas Liquefied gas; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 2; H221, H280, H331, H314, H318, H400, H411 M-Factor - Aquatic Acute: 10	
Dioxane		
CAS-No.: 123-91-1 Flammable liquid category 2; Severe eye damage Injury/Eye Irritation  Category 2A; Carcinogenic Sexual category 2; Specific target organ system  Toxicity (single exposure) category 3; H225, H319, H351, H335  Concentration limit: >= 20 %: STOT SE 3, H335		

#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

### In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

### In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

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

# 5.1 Extinguishing media

### Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable extinguishing media



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no data available

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

# 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

no data available

### **SECTION 6: Accidental release measures**

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

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

# 6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

# 6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

### 6.4 Reference to other sections

For disposal see section 13.

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

## 7.1 Precautions for safe handling

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

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



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Store in a cool, ventilated warehouse. Air & Heat & moisture sensitive, 2-8 °C, store with argon filling.

# 7.3 Specific end use(s)

no data available

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

### 8.1 Control parameters

# 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

#### **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

#### Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

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

# 9.1 Information on basic physical and chemical properties

a) Appearance form: liquid color: colourless

b) Odour no data available c) Odour Threshold no data available d) pH no data available e) Melting point/freezing point no data available



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f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available

j) Upper/lower flammability or explosive

limits no data available no data available k) Vapour pressure I) Vapour density no data available no data available m) Relative density no data available n) Water solubility o) Partition coefficient: n-octanol/water no data available p) Auto-ignition temperature no data available q) Decomposition temperature no data available r) Viscosity no data available no data available s) Explosive properties N no data available t) Oxidizing properties N

# 9.2 Other safety information

no data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

no data available

# 10.2 Chemical stability

Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

Can form peroxides , Steam may form explosive mixtures with air.

#### 10.4 Conditions to avoid

Heat up Moisture

# 10.5 Incompatible materials

Zinc Oxidizing agents Iron Reducing agents Oxygen Aldehydes Alcohols acids Copper Halogens Cadmium/cadmium oxides Silver/silver oxides Perchlorates. Trimethylaluminum

# 10.6 Hazardous decomposition products

peroxide

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



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# 11.1 Information on toxicological effects

#### **Acute toxicity**

Oral: No data available

Acute toxicity estimate Inhalation - 4 h - > 40 mg/l - vapor(Calculation method)

Symptoms: Possible symptoms:, mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Dermal: No data available

#### Skin corrosion/irritation

Remarks: Repeated exposure with the mixture may cause skin dryness or cracking.

### Serious eye damage/eye irritation

Note: The mixture can cause severe eye irritation.

#### Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

Possible carcinogen.

#### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

The mixture can cause respiratory irritation.

#### Specific target organ toxicity - repeated exposure

no data available

#### **Aspiration hazard**

no data available

# **Additional Information**

Long term or repeated skin contact can lead to defatting and dermatitis.

Weakness, dizziness, vertigo, headache, sweating, decreased appetite, to our knowledge, the chemical, physical, and toxic properties of this have not been fully studied.

Other hazards cannot be ruled out. This substance needs to be handled with special caution Operate in accordance with good industrial hygiene and safety regulations.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

# 12.2 Persistence and degradability

no data available



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# 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

no data available

### **SECTION 13:**

### 13.1 Disposal considerations

#### **Product**

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

#### Contaminated packaging

Dispose of as unused product.

### **SECTION 14: Transport information**

DOT (US)

UN number: 1165 Packing group: II Class: 3

Proper shipping name: Dioxane Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

available available

Environmental Hazards: no

**IMDG** 

UN number: 1165 Packing group: II EMS-No: no data available

Proper shipping name: Dioxane

**IATA** 

UN number: 1165 Packing group: II Class: 3

Proper shipping name: Dioxane

# **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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



Shanghai Aladdin Biochemical Technology Co., Ltd. No. 809, Chuhua Branch Road, Fengxian District, Shanghai

#### **Further information**

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