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## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name : Trimethylamine solution  
Product Number : T108428  
Brand : aladdin  
CAS-No. : 75-50-3

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

Identified uses : For research use only. Not intended for diagnostic or therapeutic use.

#### 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)

Acute toxicity - Oral [Category 4]

Acute toxicity - Inhalation (Dusts/Mists) [Category 4]

Skin corrosion/irritation [Category 1] [Sub-category B]

Serious eye damage/eye irritation [Category 1]

Reproductive toxicity [Category 2]

Specific target organ toxicity (single exposure) [Category 3]

Specific target organ toxicity (repeated exposure) [Category 2]

Flammable liquids [Category 2]

#### 2.2 GHS Label elements, including precautionary statements

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**Pictogram****Signal word****Hazard statement(s)**

Danger

H225

Highly Flammable liquid and vapor

H314

Causes severe skin burns and eye damage

H335

May cause respiratory irritation

H361

Suspected of damaging fertility or the unborn child

H372

Causes damage to organs through prolonged or repeated exposure

H302+H332

Harmful if swallowed or if inhaled

**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.

P235

Keep cool.

P240

Ground/bond container and receiving equipment.

P242

Use only non-sparking tools.

P243

Take precautionary measures against static discharge.

P260

Do not breathe 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.

P281

Use personal protective equipment as required.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS****SECTION 3: Composition/information on ingredients****3.1 Substances**

Synonyms

: Trimethylamine water solution TMA Trimethylamine N,N-dimethyl-Methanamine

Formula

: C<sub>3</sub>H<sub>9</sub>N

Molecular weight

: 59.11

CAS No.

: 75-50-3

EC-NO.

: 200-875-0

**Component****Classification****Concentration****Trimethylamine solution**

no data available

30 wt. % in  
H<sub>2</sub>O**SECTION 4: First aid measures****4.1 Description of first aid measures****General advice**

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Consult a physician if necessary. Remove to fresh air.

**If inhaled**

Transfer to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

**In case of skin contact**

Wash skin with soap and water.

**In case of eye contact**

Wash with plenty of water.

**If swallowed**

Never feed anything to an unconscious person. Rinse your mouth and drink more water.

**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

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

no data available

**5.2 Special hazards arising from the substance or mixture**

no data available

**5.3 Advice for firefighters**

Wear self-contained breathing and full protective equipment

**5.4 Further information**

no data available

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**SECTION 6: Accidental release measures**

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

Ensure adequate ventilation, especially in confined areas.

**6.2 Environmental precautions**

See Section 12 for additional Ecological Information.

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**6.3 Methods and materials for containment and cleaning up**

If safe, prevent further leakage or spillage. Pick up and transfer to a properly labeled container.

**6.4 Reference to other sections**

For disposal see section 13.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice.

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

Store in a cool and ventilated warehouse. Argon filling

**7.3 Specific end use(s)**

no data available

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**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

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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: Colorless to light yellow |
| b) Odour                                        | no data available                             |
| c) Odour Threshold                              | no data available                             |
| d) pH                                           | no data available                             |
| e) Melting point/freezing point                 | -117°C                                        |
| f) Initial boiling point and boiling range      | 82°C                                          |
| g) Flash point                                  | -7°C                                          |
| h) Evaporation rate                             | no data available                             |
| i) Flammability (solid, gas)                    | no data available                             |
| j) Upper/lower flammability or explosive limits | no data available                             |
| k) Vapour pressure                              | no data available                             |
| l) Vapour density                               | no data available                             |
| m) Relative density                             | no data available                             |
| n) Water solubility                             | no data available                             |
| 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                             |
| s) Explosive properties N                       | no data available                             |
| t) Oxidizing properties N                       | no data available                             |

### 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

no data available

### 10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

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Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Carbon oxides. Nitrogen oxides (NOx).

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

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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

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**SECTION 13:**

**13.1 Disposal considerations**

**Product**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Dispose of as unused product.

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**SECTION 14: Transport information**

**DOT (US)**

UN number: UN2924

Packing group: II

Class: 3

Proper shipping name: Flammable liquids, corrosive, n.o.s.

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data

Environmental Hazards: no data available

**IMDG**

UN number: UN2924

Packing group: II

EMS-No: F-E,S-C

Proper shipping name: Flammable liquids, corrosive, n.o.s.

**IATA**

UN number: UN2924

Packing group: II

Class: 3

Proper shipping name: Flammable liquids, corrosive, n.o.s.

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**SECTION 15: Regulatory information**

Please note that waste disposal should also meet local regulations. If applicable, the chemical meets the requirements of the Regulations on the Safety Management of Hazardous Chemicals (adopted by the State Council on December 4, 2013).

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**SECTION 16: Other information**

**Further information**

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document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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