

Version: v1
Revision Date: 2023-07-18
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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 : 2,4-Diaminotoluene
Product Number : D141204
Brand : aladdin
CAS-No. : 95-80-7

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

Identified uses : 仅供科研用途，不作为药物、家庭备用药或其它用途。

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)

2.2 GHS Label elements, including precautionary statements

Pictogram no data available
Signal word no data available
Hazard statement(s)
Precautionary statement(s)

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Synonyms : 2,4-Toluenediamine 4-Methyl-1,3-phenylenediamine toluene-2,4-diamine 4-Methyl-m-phenylenediamine C.I. 76035 C.I. Oxidation base
Formula : C7H10N2

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Molecular weight : 122.17

Component Classification Concentration

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Instantly remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration

If inhaled

Supply fresh air and call for doctor for safety reasons. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.

In case of skin contact

Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

In case of eye contact

Seek immediate medical advice

If swallowed

Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NO_x) Possibly Hydrogen cyanide (HCN)

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear full protective suit.

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

Wear protective equipment.Keep unprotected persons away.Ensure adequate ventilation

6.2 Environmental precautions

Do not allow material to be released to the environment without proper governmental permits.

6.3 Methods and materials for containment and cleaning up

Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling See section 8 for information on personal protection equipment.See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep containers tightly sealed.Store in cool, dry place in tightly closed containers.Ensure good ventilation/exhaustion at the workplace.Open and handle container with care.

7.2 Conditions for safe storage, including any incompatibilities

No information known.No special requirements.Store away from oxidizing agents.Keep container tightly sealed.Store in cool, dry conditions in well sealed containers.Store in a locked cabinet or with access restricted to technical experts or their assistants.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

The usual precautionary measures should be adhered to in handling the chemicals.Keep away from foodstuffs, beverages and food.Instantly remove any soiled and impregnated garments.Wash hands during breaks and at the end of the work.Store protective clothing separately.Avoid contact with the eyes and skin.

Personal protective equipment

Eyeface protection

Safety glasses

Skin protection

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Check protective gloves prior to each use for their proper condition.

Body Protection

Impervious gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer

Respiratory protection

Not determined

Control of environmental exposure

no data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	99°C
f) Initial boiling point and boiling range	280°C
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
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

No dangerous reactions known

10.3 Possibility of hazardous reactions

No decomposition if used and stored according to specifications.

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10.4 Conditions to avoid

Oxidizing agents

10.5 Incompatible materials

Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen cyanide (prussic acid) Possibly Hydrogen cyanide (HCN)

10.6 Hazardous decomposition products

LD/LC50 values that are relevant for classification: Oral LD50 73 mg/kg (rat) Dermal LD50 500 mg/kg (rabbit) Irritation of skin mild 500 mg/24H (rabbit) Irritation of eyes moderate 100 mg/24H (rabbit)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Causes mild irritant effect.Sensitization possible by skin contact.

Skin corrosion/irritation

Irritant effect.

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 further relevant information available.

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

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no data available

12.2 Persistence and degradability

No further relevant information available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

No further relevant information available.

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal

Contaminated packaging

Disposal must be made according to official regulations.

SECTION 14: Transport information

DOT (US)

UN number: 1709

Packing group: III

Class: 6.1

Proper shipping name: 1709 2,4-TOLUYLENEDIAMINE, SOLID, ENVIRONMENTALLY HAZARDOUS

Reportable Quantity(RQ): no data available Poison Inhalation Hazard: no data

Environmental Hazards: no data available

IMDG

UN number: 1709

Packing group: III

EMS-No: no data available

Proper shipping name: 1709 2,4-TOLUYLENEDIAMINE, SOLID, ENVIRONMENTALLY HAZARDOUS

IATA

UN number: 1709

Packing group: III

Class: 6.1

Proper shipping name: 1709 2,4-TOLUYLENEDIAMINE, SOLID, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

SECTION 16: Other information

Further information

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