

SAFETY DATA SHEET

Version: v1

Revision Date: 2023-11-

06

Print Date: 2023-11-16

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

1.1 Product identifiers

Product name : 2-Methylimidazole
Product Number : M104839
Brand : aladdin
CAS-No. : 693-98-1

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

Identified uses : It is only for scientific research purposes, not for medicine, family standby medicine or other purposes.

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 oral toxicity category 4

Skin corrosion / irritation category 1C

Severe eye injury / eye irritation category

Carcinogenicity category 2

Reproductive toxicity category 1B

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H360Df	May damage the unborn child; Suspected of damaging fertility
Precautionary statement(s)	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: 2-methyl-1H-Imidazole; 2-Methylglyoxaline; 2-methyl-imidazol; 2-methyl-1h-imidazol
Formula	: C4H6N2
Molecular weight	: 82.1
CAS No.	: 693-98-1
EC-NO.	: 211-765-7

Component	Classification	Concentration
2-Methylimidazole		
	no data available	98%

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

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: Drink immediately (up to 2 cups). If you feel unwell, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

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5.1 Extinguishing media

Suitable extinguishing media

Dry powder, foam, water mist, carbon dioxide

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx)

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

Water spray can be used to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions

If safety is ensured, measures can be taken to prevent further leakage or spillage. Don't let the product go down the drain.

6.3 Methods and materials for containment and cleaning up

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Under Inert Atmosphere

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

Eyeface protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(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, 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 full-face 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 it is safe, prevent further leakage or spillage and do not allow the product to enter the sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: powder color: white
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	142 - 143 °C
f) Initial boiling point and boiling range	267°C
g) Flash point	155 °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	1.09
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

Stable under recommended storage conditions.

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Strong oxidizing agents, acids, Acid chlorides, Acid anhydrides

10.5 Incompatible materials

No data

10.6 Hazardous decomposition products

No data

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Skin corrosion/irritation

Skin - Rabbit Results: after 1 to 4 hours of contact exposure, corrosion effects occurred - 4 h (OECD Test Guideline

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404)

Serious eye damage/eye irritation

Eyes - Rabbit Result: corrosive

Respiratory or skin sensitisation

Local lymph node test (LLNA) - mice Results: it did not cause skin allergy. (OECD Test Guideline 429)

Germ cell mutagenicity

No data

Carcinogenicity

No data

Reproductive toxicity

May cause harm to the fetus. I suspect that it will harm my fertility.

Specific target organ toxicity - single exposure

No data

Specific target organ toxicity - repeated exposure

No data

Aspiration hazard

no data available

Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish static test LC50 - Leuciscus IDUs (high body arrowroot) - 190 mg / L - 96 h (German industrial standard (DIN) 38412) static test NOEC - Leuciscus IDUs (high body arrowroot) - 100 mg / L - 96 h (German industrial standard (DIN) 38412)

Static toxicity test for Daphnia magna and other aquatic invertebrates EC50 - Daphnia magna - 200 mg / L - 48 h (OECD Test Guideline 202)

Static toxicity test for algae EC50 - desmodesmus subspicatus - 256.3 mg / L - 72 h (German industrial standard (DIN) 38412)

Static toxicity test for bacteria EC50 - Pseudomonas putida - 459.9 mg / L - 7 h (German industrial standard (DIN) 38 412 Part 8)

12.2 Persistence and degradability

Aerobic - exposure time 28 d Results: 67% - rapidly biodegradable. (OECD Test Guideline 301B)

12.3 Bioaccumulative potential

No data

12.4 Mobility in soil

No data

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

No data

SECTION 13:

13.1 Disposal considerations

Product

Dissolve or mix the material with a combustible solvent and burn in a chem scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 3259

Packing group: II

Class: 8

Proper shipping name: AMINES,
SOLID, CORROSIVE, N.O.S. (2-
Methylimidazole)

Reportable Quantity(RQ): no data
available

Poison Inhalation Hazard: no data
available

Environmental Hazards: No

IMDG

UN number: 3259

Packing group: II

EMS-No: no data available

Proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (2-Methylimidazole)

IATA

UN number: 3259

Packing group: II

Class: 8

Proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (2-Methylimidazole)

SECTION 15: Regulatory information

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

SECTION 16: Other information

Further information

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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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