

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

SAFETY DATA SHEET

Version: v1
Revision Date: 2024-02-01
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Bromine thymol blue indicator
Product Number : B196458
Brand : aladdin
CAS-No. : no data available

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 liquid (category 2), H225

Serious eye damage/eye irritation (category 2A), H319

Specific target organ toxicity (single exposure) (category 3), narcotic effects, H33

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H225

Highly Flammable liquid and vapor

H319

Causes serious eye irritation

H336

May cause drowsiness or dizziness

Precautionary statement(s)

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P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
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.
P271	Use only outdoors or in a well-ventilated area.
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.
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.
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	: no data available
Formula	: no data available
Molecular weight	: no data available

Component	Classification	Concentration
Isopropyl Alcohol		
CAS-No.: 67-63-0	Flammable liquids (Category 2), H225 Eye irritation (Category 2), H319	
EC-No.: 200-661-7	Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336	
Bromothymol blue		

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Component	Classification	Concentration
CAS-No.: 76-59-5 EC-No.: 200-971-2		

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

After inhalation: fresh air.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described on the label (see section 2.2) and/or 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

Carbon dioxide (CO₂) foam dry powder

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides are combustible. Beware of tempering. Vapor is heavier than air, so it can spread over the ground. In the event of a fire, hazardous gas or vapor may be produced. It forms an explosive mixture with air at moderate temperatures.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let the product enter the drain. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). 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

Avoid generating vapor or smoke. Keep away from open flames, hot surfaces and sources of ignition. Take measures to prevent electrostatic discharge. Change contaminated clothing. Wash hands after using this substance. For precautions, see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep the container tightly closed and store in a dry and ventilated place. Keep away from heat and fire sources.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Predicted No Effect Concentration (PNEC)

Compartment Value

Soil	28 mg/kg
Marine water	140,9 mg/l
Fresh water	140,9 mg/l
Marine sediment	552 mg/kg

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Fresh water sediment	552 mg/kg
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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

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard 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 respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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 | no data available |
| 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 |

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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

Warm up

10.5 Incompatible materials

Rubber, various plastics, oils

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral-Rat-5,840 mg/kg

(OECD Test Guideline 401)

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LC50 inhalation-rat-male and female-4 h-37.5 mg/l

(OECD Test Guideline 403)

LD50 transdermal-rabbit-12,800 mg/kg

Remarks: (RTECS)

Skin corrosion/irritation

Skin-Rabbit Result: No skin irritation-4 hours (OECD Test Guideline 404)

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

Respiratory or skin sensitization Buehler guinea pig test-guinea pig Result: negative (OECD Test Guideline 406)

Germ cell mutagenicity

Test type: Ames test Test system: Salmonella typhimurium Metabolic activation: With or without metabolic activation Method: OECD Test Guideline 471 Result: Negative test type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cell metabolism activation: Yes Or without metabolic activation method: OECD Test Guideline 476 Result: Negative Test Type: In vivo micronucleus test Species: Mouse

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

Inhalation, oral-may cause drowsiness or dizziness. -Central Nervous System Remarks: Classification according to EU CLP Regulation 1272/2008, Annex 6 (Table 3.1/3.2)

Additional Information

Registration of Toxic Effects of Chemical Substances: NT8050000

Central nervous system depression, long-term or frequent exposure can cause:, nausea, headache, vomiting, anesthesia, drowsiness, overexposure may cause moderate, reversible

Liver effects, inhalation can cause:, pulmonary edema, pneumonia

As far as we know, the chemical, physical and toxic properties have not been fully studied.

After absorption:

Headache

Dizziness

drunk

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Lose consciousness

anaesthetization

After taking a large amount:

coma

Operate in accordance with good industrial hygiene and safety regulations.

Kidney-Irregular-Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish Flow-through test LC50-Pimephales promelas (fathead minnow)-9,640 mg/l-96 h

(OECD Test Guideline 203)

No ridge to water flea and other aquatic species

Toxicity of Vertebral Animals

EC50-Daphnia magna (Water flea)-13,299 mg/l-48 h

Remarks: (IUCLID)

Toxicity to algae IC50-Desmodesmus subspicatus (green algae)-> 1,000 mg/l-72 h

Remarks: (IUCLID)

Toxicity to bacteria EC5-Pseudomonas putida-1,050 mg/l-16 h

Remarks: (Lit.)

12.2 Persistence and degradability

Biodegradability Aerobic-Exposure time 5 d Result: 53%-Rapidly biodegradable. (Directive 67/548/EEC, Appendix V, C.6.) Theoretical oxygen demand 2,400 mg/g Remarks: (Lit.) Ratio of biochemical oxygen demand to theoretical biochemical oxygen demand 49% Remarks: (IUCLID)

12.3 Bioaccumulative potential

No bioaccumulation is expected ($\log Pow \leq 4$).

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

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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: 1219

Proper shipping name: Isopropanol

Packing group: II

Reportable Quantity(RQ): no data available

Class: 3

Poison Inhalation Hazard: no data available

Environmental Hazards: No

IMDG

UN number: 1219

Proper shipping name: Isopropanol

Packing group: II

EMS-No: no data available

IATA

UN number: 1219

Proper shipping name: Isopropanol

Packing group: II

Class: 3

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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