

ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

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 : Benzaldehyde
Product Number : B110464
Brand : aladdin
CAS-No. : 100-52-7

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

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION
Address : 14078 Meridian Parkway,
Riverside, CA. 92518
Telephone : +1 (833) 552-7181
Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300
CHEMTREC®, Outside the USA :

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



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed

Precautionary statement(s)

P264

Wash hands [and ...] thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P330

Rinse mouth.

P301+P312

IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.

P501

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

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Artificial essential oil of almond
 Formula : C7H6O
 Molecular weight : 106.12
 CAS No. : 100-52-7
 EC-NO. : 202-860-4

Component	Classification	Concentration
Benzaldehyde	no data available	purified by redistillation, ≥99.5%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
 no data available
 If inhaled
 no data available
 In case of skin contact
 no data available
 In case of eye contact
 no data available
 If swallowed
 no data available

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

5.1 Extinguishing media

Suitable extinguishing media
 Water, Foam, Carbon dioxide (CO2), Dry powder
 Unsuitable extinguishing media

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no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

no data available

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid inhaling vapors, smoke, or gases. Ensure sufficient ventilation. Remove all sources of ignition. Evacuate personnel to a safe area. Beware of vapor accumulation reaching explosive concentrations. Vapour can accumulate in low-lying areas.

6.2 Environmental precautions

If safety can be ensured, measures can be taken to prevent further leakage or overflow. Do not allow the product to enter the sewer.

6.3 Methods and materials for containment and cleaning up

Contain spillage and collect spillage with a vacuum cleaner or damp brush, place in container, and dispose of in accordance with local regulations (see Section 13).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid the formation of dust and aerosols. Provide suitable exhaust equipment in areas with dust generation.

7.2 Conditions for safe storage, including any incompatibilities

Store in nitrogen, Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place. The opened container must be carefully resealed and kept in an upright position to prevent leakage. Sensitive to air, light, and moisture.

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

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

no data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: liquid color: colorless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	5.9 at 20 °C (68 °F)
e) Melting point/freezing point	-26 °C (-15 °F) - lit.
f) Initial boiling point and boiling range	178 - 179 °C (352 - 354 °F) - lit.
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	1.4 %(V) 8.5 %(V)

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k) Vapour pressure	5 hPa (4 mmHg) at 45 °C (113 °F)
l) Vapour density	3.66- (Air = 1.0)
m) Relative density	1.044 g/cm ³ at 20 °C (68 °F)
n) Water solubility	Slightly soluble in water, miscible in ethanol, ether, benzene and chloroform.
o) Partition coefficient: n-octanol/water	1.5
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

Air Exposed to moisture. glow. heating.Heat, flames and sparks.

10.5 Incompatible materials

strong oxidant, strong reducing agent or reductant, alkali, alkalis, Aluminum, iron, phenol, oxygen

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes - Rabbit - Mild eye irritation

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Respiratory or skin sensitisation

May be harmful if inhaled. May cause respiratory irritation.

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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 may be harmful. May cause respiratory irritation.

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - *Lepomis macrochirus* - 1.07 mg/l - 96 h mortality LOEC - Fathead Minnow (Fathead Minnow) - 0.45 mg/l - 7 d mortality not observed Effect concentration - Fathead minnow (Fathead minnow) - 0.22 mg/l - 7 d LC50 - Tall-bodied yarrow (Golden yarrow) - 62 mg/l - 48 h to water Toxic half effect concentration (EC50) for fleas and other aquatic invertebrates - *Daphnia magna* (Water flea) - 50 mg/l - 24 h

12.2 Persistence and degradability

no data 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 data available

12.6 Other adverse effects

Toxic to aquatic organisms and has long-lasting effects. Avoid release into the environment.

SECTION 13:

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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: 1990

Packing group: III

Class: 9

Proper shipping name: Benzaldehyde

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: No

IMDG

UN number: 1990

Packing group: III

EMS-No: no data available

Proper shipping name: Benzaldehyde

IATA

UN number: 1990

Packing group: III

Class: 9

Proper shipping name: Benzaldehyde

SECTION 15: Regulatory information

no data available

SECTION 16: Other information

Prepared By

Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION

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SDS sections updated v1

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