

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

Revision Date: 2024-09-19

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

1.1 Product identifiers

Product name : Formaldehyde solution
Product Number : F111939
Brand : aladdin
CAS-No. : 50-00-0(water)

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)

Acute toxicity - Oral [Category 3]

Acute toxicity - Dermal [Category 3]

Acute toxicity - Inhalation (Vapors) [Category 2]

Acute toxicity - Inhalation (Dusts/Mists) [Category 3]

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

Serious eye damage/eye irritation [Category 1]

Skin sensitization [Category 1]

Germ Cell Mutagenicity [Category 2]

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Carcinogenicity [Category 1A]

Specific target organ toxicity (single exposure) [Category 1]

Flammable liquids [Category 3]

2.2 GHS Label elements, including precautionary statements

Pictogram



Danger

Signal word

Hazard statement(s)

H226	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H330	Fatal if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H370	Causes damage to organs
H301+H311	Toxic if swallowed or in contact with skin

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.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P284	[In case of inadequate ventilation] Wear respiratory protection.

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

SECTION 3: Composition/information on ingredients

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3.2 Mixtures

Synonyms	: Formalin
Formula	: CH ₂ O
Molecular weight	: 30.03

Component	Classification	Concentration
Water		
CAS-No. : 7732-18-5		
EC-No. : 231-791-2		
Formaldehyde solution		
CAS-No. : 50-00-0	Acute Tox. 3; Acute Tox. 2; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin	
EC-No. : 200-001-8	Sens. 1; Muta. 2; Carc. 1B; STOT SE 3; H301, H330, H311, H314, H318, H317, H341, H350, H335 Concentration limits: >= 25 %: Skin Corr. 1B, H314; 5 - < 25 %: Skin Irrit. 2, H315; 5 - < 25 %: Eye Irrit. 2, H319; >= 5 %: STOT SE 3, H335; >= 0,2 %: Skin Sens. 1, H317;	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Immediate medical attention is required.

If inhaled

Transfer to fresh air and call a doctor or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, take oxygen.

In case of skin contact

Need immediate medical attention. Wash immediately with soap and plenty of water, and remove all contaminated clothing and shoes at the same time.

In case of eye contact

Wash immediately with plenty of water and also under the eyelids for at least 15 minutes. If symptoms persist, call your doctor.

If swallowed

Do not induce vomiting. Clean your mouth with water, then drink plenty of water. Call a doctor or poison control center immediately.

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

Water, Foam, Carbon dioxide (CO₂), Dry powder

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

5.3 Advice for firefighters

Wear self-contained breathing and full protective equipment

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 as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak

6.2 Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

If safety requires, prevent further leakage or spillage. Cover the powder spillage with plastic cloth or waterproof cloth to minimize diffusion. Embankment shall be built before liquid leakage for later treatment. Absorb with inert absorbent material. Place in a suitable container for disposal. Thoroughly clean contaminated surfaces. Prevent the product from entering the sewer. After cleaning, wash away traces with water.

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, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Noxious vapor/odor.

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7.2 Conditions for safe storage, including any incompatibilities

Storage at 2-8 °C

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

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 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 | no data available |
| b) Odour | no data available |
| c) Odour Threshold | no data available |

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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
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
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

It is generally believed to react easily with water

10.4 Conditions to avoid

Exposure to air or moisture over prolonged periods.

10.5 Incompatible materials

Strong base, strong oxidant, amine, strong acid, anhydride, peroxide, isocyanate (or ester), phenol, aniline

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides.

SECTION 11: Toxicological information

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11.1 Information on toxicological effects

Acute toxicity

Oral: No data available

Acute toxicity estimate orally -500 mg/kg

(Calculation method)

Symptoms: Irritation of the oral cavity, throat, esophagus, and digestive tract mucosa

Acute toxicity estimate inhalation -4 h-2.55 mg/l - vapor (calculation method)

Symptoms: Possible symptoms: mucosal irritation, cough, shortness of breath, possible damage: damage to respiratory tract

Acute toxicity estimate transdermal -1350 mg/kg

(Calculation method)

Skin corrosion/irritation

The mixture can cause skin irritation.

Serious eye damage/eye irritation

The mixture can cause severe eye irritation.

Respiratory or skin sensitisation

The mixture may cause skin allergic reactions.

Germ cell mutagenicity

Evidence of genetic defects.

Carcinogenicity

Possible carcinogens.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

The mixture can cause respiratory irritation.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

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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

SECTION 13:

13.1 Disposal considerations

Product

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: UN1198

Packing group: III

Class: 3

Proper shipping name: Formaldehyde solutions, flammable

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: no data available

IMDG

UN number: UN1198

Packing group: III

EMS-No: F-E,S-C

Proper shipping name: Formaldehyde solutions, flammable

IATA

UN number: UN1198

Packing group: III

Class: 3

Proper shipping name: Formaldehyde solutions, flammable

SECTION 15: Regulatory information

Applicable regulations

Occupational Disease Prevention and Control Law

Other regulations

Please note that waste disposal should also comply with local regulations.

SECTION 16: Other information

Prepared By

Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION

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