SAFETY DATA SHEET

Version: v1 Revision Date: 2024-10-21 Print Date: 2024-10-21

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

1.1 Product identifiers

Product name	: Acetaldehyde solution
Product Number	: A113994
Brand	: aladdin
CAS-No.	: 75-07-0(Water)

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

Identified uses : Laboratory chemicals, Manufacture of substance	Identified uses	: Laboratory chemicals,Manufacture of substances.
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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) Flammable liquid (category 2), H225 Severe eye injury/eye irritation (Category 2A), H319 Genital cell mutagenicity (category 2), H341 Carcinogenicity (Category 2), H351 Specific target organ systemic toxicity (single exposure) (Category 3), respiratory irritation, H335 Acute (short-term) aquatic hazard (category 3), H402

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Hazard statement(s)



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H226	Flammable liquid and vapor
H302	Harmful if swallowed
H313	May be harmful in contact with skin
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H371	May cause damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H373	Causes damage to organs through prolonged or repeated exposure
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.
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.
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.
P310	Immediately call a POISON CENTER or doctor/physician.
P311	Call a POISON CENTER or doctor/
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN
	with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses if present and easy to do - continue rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
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.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

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

SECTION 3: Composition/information on ingredients

3.2 **Mixtures**

Synonyms	: Ethanal
Formula	: C2H4O
Molecular weight	: 44.05

Component	Classification	Concentration
Acetaldehyde solution		
Acetaldenyde solution		
CAS-No. : 75-07-0 EC-No. :	Flammable liquid category 1; Severe eye damage Injury/eye irritation category 2A; reproduction Cell mutagenicity category 2; Carcinogenicity Category 2; Specific target organ systemic toxicity (One contact) Category 3; acute Short term aquatic hazard category 3; H224, H319, H341, H351, H335, H402	

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 Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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



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no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Dry powder, foam, large amount of water, carbon dioxide Unsuitable extinguishing media no data available

5.2 Special hazards arising from the substance or mixture

no data available

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use special personal protective equipment (self-contained breathing apparatus). Stay away from spills/leaks and stay upwind. Ensure adequate ventilation. Leakage areas should be enclosed with safety belts, etc., to control the entry of non-related personnel.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Use dry sand or inert absorbent to absorb spilled material before recycling it to a closed container. In case of a large amount of leakage, build a dike to control it. Attachments or collections should be disposed of in accordance with relevant laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures: Treat in a well-ventilated place. Wear suitable protective equipment. Prevent smoke generation. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take measures to prevent static electricity from accumulating. Use explosion-proof equipment. Wash hands and face thoroughly after treatment. Note: If possible, use a closed system. If vapor or aerosol is generated, use ventilation and local exhaust. Handling



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precautions: Avoid contact with all parts!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dark, well-ventilated place. The storage place must be locked. Store away from incompatible materials such as oxidizers. Sensitive to heat and light, storage temperature 2-8°C, filled with argon

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

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 multipurpose 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

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Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: Liquid color: Colorless to Yellow
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	-123°C
f) Initial boiling point and boiling range	21°C
g) Flash point	-27°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
I) Vapour density	no data available
m) Relative density	0.756
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

Sparks, open flames, static electricity

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10.5 Incompatible materials

Oxidizers, nitrates, halogenated hydrocarbons

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

(DMF)

orl-rat LD50:2800 mg/kg

skn-rbt LD50:4720 mg/kg

ihl-rat LC50:1948 ppm/4H

ipr-rat LD50:1400 mg/kg

Skin corrosion/irritation

(DMF) skn-hmn 100 %/24H MLD skn-wmn 0.1 %

Serious eye damage/eye irritation

(DMF) eye-rbt 100 % rinse SEV

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

(DMF) cyt-hmn-lym 100 nmol/L mmo-sat 600 ug/plate (-S9) mnt-mus-ipr 1 mg/kg

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 data available

Additional Information

SECTION 12: Ecological information

12.1 Toxicity

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12.2 Persistence and degradability

no data available

Bioaccumulative potential 12.3

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

no data available

SECTION 13:

13.1 **Disposal considerations**

Product

ecycle 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: 1993	Packing group: II	Class: 3
Proper shipping name: Flammable	Reportable Quantity(RQ): no data	Poison Inhalation Hazard: no data
liquid, not otherwise specified	available	available
(acetaldehyde)		
Environmental Hazards: no		
IMDG		
UN number: 1993	Packing group: II	EMS-No: no data available
Proper shipping name: Flammable liquid, not otherwise specified (acetaldehyde)		
ΙΑΤΑ		
UN number: 1993	Packing group: II	Class: 3
Proper shipping name: Flammable liq	uid, not otherwise specified (acetaldehy	de)

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SECTION 15: Regulatory information

The following laws, regulations, and standards provide corresponding provisions for the safe use, storage, transportation, loading and unloading, classification, and labeling of chemicals: Catalogue of Hazardous Chemicals (2015 Edition): Listed Classification and Variety Catalogue of Precursor Chemicals (2015 Edition): Not included List of Hazardous Chemicals for Explosive Production (2017 Edition): Not included List of Existing Chemical Substances in China: Listed National Standards for Classification and Labeling of Chemicals (GB 30000.2-2013~30000.29-2013)

If applicable, the chemical meets the requirements of the Regulations on the Safety Management of Hazardous Chemicals.

SECTION 16: Other information

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