

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 : Acid value neutralizer
Product Number : Z305302
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 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 (Class 2), H225

Severe eye injury/eye irritation (Category 2A), H319

Metal corrosives (Category 1), H290

Acute toxicity, oral (Class 4), H302

Skin corrosion/irritation (Category 1A), H314

Severe eye injury/eye irritation (Category 1), H318

Acute (short-term) aquatic hazard (Category 3), H402

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

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Hazard statement(s)

H225	Highly Flammable liquid and vapor
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H402	Harmful to aquatic life

Precautionary statement(s)

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.
P264	Wash hands [and ...] thoroughly after handling.
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.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
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

3.2 Mixtures

Synonyms	: no data available
Formula	: no data available
Molecular weight	: no data available

Component	Classification	Concentration
Ethanol		
CAS-No. : 64-17-5	Flam. Liq. 2; Eye Irrit. 2; H225, H319	Concentration limits: >= 50 %: Eye
EC-No. : 200-578-6	Irrit. 2A, H319;	

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Component	Classification	Concentration
Potassium hydroxide		
CAS-No. : 1310-58-3	Met. Corr. 1; Acute Tox. 4; Skin Corr. 1A; Eye Dam. 1; H290, H302, H314,	0.1M
EC-No. : 215-181-3	H318 Concentration limits: >= 5 %: Skin Corr. 1A, H314; 2 - < 5 %: Skin Corr. 1B, H314; 0,5 - < 2 %: Skin Irrit. 2, H315; 0,5 - < 2 %: Eye Irrit. 2, H319; >= 0,5 %: Met. Corr. 1, H290;	

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

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. 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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

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

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate 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

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool and ventilated warehouse and keep it dry.

7.3 Specific end use(s)

no data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hazard composition and occupational exposure limit:

Components	CAS No.	value	Control parameters	basis
ethanol	64-17-5	TWA	1,000 ppm1,900 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1,000 ppm1,900 mg/m3	U.S.A. Occupational Exposure Limits (OSHA) - Table Z-1 Air Pollutant Limits
		STEL	1,000 ppm	U.S.A. ACGIH Threshold Limit Value (TLV)
	remarks	Animal carcinogens with unknown association with humans		
		TWA	1,000 ppm1,900 mg/m3	U.S.A. NIOSH Recommended Exposure Limits
		PEL	1,000 ppm1,900 mg/m3	Permissible Exposure Limits for Chemical Pollutants in California (Article 107, Paragraph 8)

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	form: liquid color: Colorless
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
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

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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

hydrogen peroxide Perchlorate Perchloric acid nitric acid Mercury nitrate (II) Permanganate nitrile peroxide Strong oxidant Nitrite peroxide sodium potassium Halogen oxide Calcium hypochlorite Nitrogen dioxide metallic oxide Uranium hexafluoride Iodide chlorine alkali metal alkaline-earth metal Alkaline oxide ethylene oxide silver and nitric acid Argentide and ammonia Potassium permanganate and concentrated sulfuric acid It may cause fire or produce flammable gas or vapor: Halogen Halogen compounds Chromium oxide (VI) Chromium oxychloride fluorine hydride Phosphorus oxide platinum nitric acid and Potassium permanganate

10.4 Conditions to avoid

Heating

10.5 Incompatible materials

Rubber, various plastics

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral Rat Male 333 mg/kg

(OECD Testing Guidelines 425)

Symptoms: Swallowing can cause severe burns to the mouth and throat, and there is a risk of perforation of the

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esophagus and stomach.

Symptoms: Mucosal burns, coughing, shortness of breath, possible damage; damage to respiratory tract

Transcutaneous: No data available

Skin corrosion/irritation

Skin - Rabbit Result: Causing burns. Remarks: (IUCLID)

Serious eye damage/eye irritation

Eyes - Rabbit Result: Severe eye damage caused. (OECD Testing Guidelines 405) Note: Causes serious eye damage.

Respiratory or skin sensitisation

Sensitivity test: - Guinea pigs Result: Negative Remarks: (IUCLID)

Germ cell mutagenicity

Test type: Ames test Testing system: Salmonella typhimurium Metabolic activation: with or without metabolic activation effect Result: Negative Remarks: (ECHA) Test type: In vitro mammalian cell gene mutation test Testing system: Mouse lymphoma cells Metabolic activation: with or without metabolic activation effect Method: OECD Testing Guidelines 476 Result: Negative

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

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 flow test LC50 - Pimephales promelas - 15300 mg/l - 96 h

(US-EPA)

Toxicity to Daphnia magna and other aquatic invertebrates

Static test LC50 - Ceriodaphnia dubia - 5012 mg/l - 48 h

Remarks: (ECHA)

Static test of toxicity to algae ErC50 - Chlorella vulgaris (freshwater algae) - 275 mg/l - 72 h

(OECD Test Guideline 201)

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Static test of toxicity to bacteria IC50 - activated sludge ->1000 mg/l - 3 h

(OECD Test Guideline 209)

12.2 Persistence and degradability

Biodegradable aerobic - exposure time 15 days Results: About 95% - fast biodegradable. (OECD Test Guideline 301E) Biological oxygen demand (BOD) 930 - 1670 mg/g Remarks: (Lit.) Theoretical oxygen demand 2100 mg/g Remarks: (Lit.)

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment is not available because chemical safety assessment is not required/carried out

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: 1170

Proper shipping name: ethanol

Packing group: II

Reportable Quantity(RQ): no data available

Class: 3

Poison Inhalation Hazard: no data available

Environmental Hazards: no

IMDG

UN number: 1170

Proper shipping name: ethanol

Packing group: II

EMS-No: no data available

IATA

UN number: 1170

Packing group: II

Class: 3

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Proper shipping name: ethanol

SECTION 15: Regulatory information

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

SECTION 16: Other information

Prepared By

Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION

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Revision Summary

SDS sections updated v1

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