

SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-10

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

1.1 Product identifiers

Product name : Acetochlor standard solution
Product Number : A110045
Brand : aladdin
CAS-No. : 34256-82-1(solution)

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 liquids (Category 2), H225

Skin corrosion/irritation (Category 3), H316

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

Specific target organ system toxicity (single contact) (category 3), anesthetic effect, H336

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

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H225	Highly Flammable liquid and vapor
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
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.
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.
P312	Call a POISON CENTER or doctor/... if you feel unwell.
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.
P332+P313	IF SKIN irritation occurs: Get medical advice/attention.
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.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Synonyms	: 2-Chloro-2'-methyl-6'-ethyl-N-ethoxymethyl
Formula	: C14H20ClNO2
Molecular weight	: 269.77

Component	Classification	Concentration
Acetone		

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Component	Classification	Concentration
CAS-No. : 67-64-1 EC-No. : 200-662-2	Flammable liquids (Category 2), H225 Skin corrosion/irritation (Category 3), H316 Severe eye damage/eye irritation (Category 2A), H319 Specific target organ system toxicity (single contact) (category 3), anesthetic effect, H336 ...	
Acetochlor		
CAS-No. : 34256-82-1 EC-No. : 251-899-3	Acute toxicity Category 4; Acute toxicity Category 5; Skin corrosion/irritation Category 2; Skin sensitization Category 1; Carcinogenicity Category 2; Reproductive toxicity Category 2; Specific target organ toxicity - single exposure Category 3; Specific target organ toxicity - repeated exposure Category 2; Short-term (acute) aquatic hazard Category 1; Longterm (chronic) aquatic hazard Category 1; H332, H313, H315, H317, H351, H361, H335, H373, H400, H410 M-Factor - Aquatic Acute: 10	

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

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

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

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

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

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**

Carbon dioxide (CO2) foam dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides are flammable Beware of tempering. Vapor is heavier than air, so it can spread over the ground. Hazardous gases or vapors may be generated in case of fire Form explosive mixture with air at mild temperature

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

For non emergency personnel, it is recommended not to inhale vapor and aerosol. Avoid contact with substances Ensure adequate ventilation. Keep away from heat and fire sources. Evacuate hazardous areas, follow emergency procedures and seek expert advice. See Part 8 for personal protection.

6.2 Environmental precautions

Do not allow the product to enter the sewer. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover the sewer. Collect, contain and extract the leakage. Observe material restrictions that may apply (see sections 7 and 10). Dry and take out discard. Clean the affected area Avoid dust generation

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid generating steam or smoke. Keep away from open flames, hot surfaces and ignition sources. Take measures to prevent electrostatic discharge. Replace contaminated clothing Skin protection emulsion is recommended. Wash hands after using this substance See Chapter 2.2 for precautions.

7.2 Conditions for safe storage, including any incompatibilities

Keep the container closed and store in a dry and ventilated place. Storage temperature 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

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
j) Upper/lower flammability or explosive limits	no data available

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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

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

acetone

acute toxicity

LD50 oral - rat - female - 5800 mg / kg

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Remarks: (ECHA)

LC50 inhalation - rat - 4 h - 76 mg / L

Note: loss of consciousness

Drowsiness

dizzy

LD50 percutaneous rabbit 20000 mg / kg

Remarks: (iuclid)

Skin corrosion/irritation

Skin - Rabbit results: mild skin irritation - 24 h (Draize test) remarks: (RTECS)

Serious eye damage/eye irritation

Eye - Rabbit results: eye irritation - 24 h (Draize test) remarks: (RTECS)

Respiratory or skin sensitisation

Maximum response test - guinea pig results: non skin sensitizer remarks: (ECHA) long term exposure will cause dermatitis.

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

Inhalation - may cause drowsiness or dizziness- Anesthetic effect

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information**Acetone**

Toxic effect registration of chemical substances: al3150000

To the best of our knowledge, this chemical, physical and toxic property has not been fully studied.

After absorption:

headache

Salivation

nausea

vomit

dizzy

anaesthesia

coma

Other risks cannot be ruled out.

Operate in accordance with good industrial hygiene and safety practices.

Kidney - Irregular - based on human evidence

Skin - dermatitis - based on human evidence

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicity

Toxicity to fish flow test LC50 - Pimephales promelas - 6210 mg / L - 96 h

(OECD Test Guideline 203)

No ridge to Daphnia magna and other aquatic animals

Toxicity of vertebrate animals

Static test LC50 - Daphnia pulex - 8800 mg / L - 48 h

Remarks: (ECHA)

Static toxicity test to algae NOEC - M. aeruginosa - 530 mg / L - 8 d

(DIN 38412)

Remarks: (maximum allowable toxic concentration)

(IUCLID)

Static toxicity test to bacteria EC50 - activated sludge - 61.15 mg / L - 30 minutes

(OECD Test Guideline 209)

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

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: 1090

Proper shipping name: Acetone

Packing group: II

Reportable Quantity(RQ): no data available

Class: 3

Poison Inhalation Hazard: no data available

Environmental Hazards: No

IMDG

UN number: 1090

Proper shipping name: Acetone

Packing group: II

EMS-No: no data available

IATA

UN number: 1090

Proper shipping name: Acetone

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

Prepared By

Regulatory Affairs

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