

## SAFETY DATA SHEET

Version: v1

Revision Date: 2023-12-05

Print Date: 2023-12-07

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

## 1.1 Product identifiers

Product name :  $\beta$ -HCH Standard  
Product Number : H128258  
Brand : aladdin  
CAS-No. : 319-85-7(methanol)

## 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

Skin Corrosion/Irritation (Category 3), H316

Serious eye injury/eye irritation (category 2A), H319

Specific target organ system toxicity (first exposure) (category 3), respiratory system, central nervous system, H335, H336

## 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                    |
| H301 | Toxic if swallowed                                   |
| H312 | Harmful in contact with skin                         |
| H332 | Harmful if inhaled                                   |
| H362 | May cause harm to breast-fed children                |
| H400 | Very toxic to aquatic life                           |
| H410 | Very toxic to aquatic life with long lasting effects |

## 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.                                           |
| P260      | Do not breathe dust/fume/gas/mist/vapors/spray.                                                 |
| P261      | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                |
| P263      | Avoid contact during pregnancy/while nursing.                                                   |
| 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.                                                 |
| P273      | Avoid release to the environment.                                                               |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection.                      |
| P330      | Rinse mouth.                                                                                    |
| P391      | Collect spillage.                                                                               |
| P302+P352 | IF ON SKIN: wash with plenty of water.                                                          |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                      |
| 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+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 | : $\beta$ -1,2,3,4,5,6-Hexachlorocyclohexane $\beta$ -Benzene hexachloride |
| Formula  | : C <sub>6</sub> H <sub>6</sub> Cl <sub>6</sub>                            |

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Molecular weight : 290.83

| Component                | Classification                                                              | Concentration |
|--------------------------|-----------------------------------------------------------------------------|---------------|
| <b>Methanol</b>          |                                                                             |               |
| CAS-No. : 67-56-1        | Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H311, H370         |               |
| EC-No. :                 | Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2, H371 |               |
| <b>beta-HCH solution</b> |                                                                             |               |
| CAS-No. : 319-85-7       | Acute toxicity - Oral Category 3 Acute toxicity - Dermal Category 4 Acute   |               |
| EC-No. : 206-271-3       | toxicity - Inhalation (Dusts/Mists) Category 4 Carcinogenicity Category 2   |               |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice

Ask a doctor. Show this safety technical instruction to the doctor on site.

If inhaled

If inhaled, please move the patient to fresh air. If breathing stops, perform artificial respiration. Ask a doctor.

In case of skin contact

Rinse with soap and plenty of water. Send the patient to the hospital immediately. Ask a doctor.

In case of eye contact

Rinse your eyes with water as a precaution

If swallowed

Do not feed anything to unconscious individuals. Rinse your mouth with water. Consult a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

Main symptoms and effects, acute and delayed effects As far as we know, the chemical, physical and toxic properties have not been completely studied.

### 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

no data available

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, hydrogen chloride gas

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not generate dust during collection and disposal. Sweep and shovel. Put into a suitable closed container for treatment.

### 6.2 Environmental precautions

Don't let products enter the sewer.

### 6.3 Methods and materials for containment and cleaning up

Do not generate dust during collection and disposal. Sweep and shovel away. Place in a suitable closed container for processing.

### 6.4 Reference to other sections

For disposal see section 13.

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## 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 where dust is generated.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep the container tightly closed and store in a dry and ventilated place. Storage temperature 2-8 °C

### 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

Operate according to industrial hygiene and safe use rules. Wash hands before rest and at the end of work.

Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Gloves must be checked before use. Please use the correct method to remove gloves (do not touch the outer surface of gloves), and avoid any skin parts from touching the product. After use, please handle 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, which must conform to the specifications given in regulation (EU)2016/425 and the en 374 standard derived therefrom.

#### Body Protection

Impervious 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

If the risk assessment shows that air-purifying gas masks are needed, please use full-face multi-function gas masks (US) or ABEK type (EN 14387) gas masks as candidates for engineering control. If the gas mask is the only way to protect it, use a full-face air supply gas mask. Respirators use respirators and parts that have been tested and passed 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 |
| d) pH                                           | no data available |
| e) Melting point/freezing point                 | ≥300°C            |
| 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                             | 0.7915            |
| 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 |

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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

It is stable under the recommended storage conditions

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Heating

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

methanol

Acute toxicity estimate Oral - 100.1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Symptoms: Nausea, Vomiting

Acute toxicity estimate Inhalation - 4 h - 3.1 mg/l - vapor

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Symptoms: Irritation symptoms in the respiratory tract.

Acute toxicity estimate Dermal - 300.1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Skin corrosion/irritation

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no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

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

methanol

Acute effects:, Headache, Dizziness, Drowsiness, narcosis, Blindness, Impairment of vision, irritant effects, Nausea, Vomiting, agitation, spasms, inebriation, Coma Drying-out effect resulting in rough and chapped skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Systemic effects: acidosis drop in blood pressure agitation, spasms inebriation Dizziness Drowsiness Headache Impairment of vision Blindness narcosis Coma Symptoms may be delayed. Damage to: Liver Kidney Cardiac Irreversible damage of the optical nerve. Other dangerous properties can not be excluded. This substance should be handled with particular care

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## SECTION 12: Ecological information

### 12.1 Toxicity

methanol

Toxicity to fish flow-through test LC50 - *Lepomis macrochirus* (Bluegill) - 15,400.0mg/l - 96 h  
(US-EPA)

Toxicity to daphnia  
and other aquatic  
invertebrates

semi-static test EC50 - *Daphnia magna* (Water flea) - 18,260 mg/l -96 h  
(OECD Test Guideline 202)

Toxicity to algae static test ErC50 - *Pseudokirchneriella subcapitata* (green algae) - ca.  
22,000.0 mg/l - 96 h  
(OECD Test Guideline 201)

Toxicity to bacteria static test IC50 - activated sludge - > 1,000 mg/l - 3 h

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(OECD Test Guideline 209)

Toxicity to

fish(Chronic toxicity)

NOEC - Oryzias latipes (Orange-red killifish) - 7,900 mg/l - 200 h

Remarks: (External MSDS)

## 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

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: 1230

Proper shipping name: Methanol

Environmental Hazards: YES

IMDG

UN number: 1230

Proper shipping name: Methanol

IATA

Packing group: II

Reportable Quantity(RQ): no data available

Packing group: II

Class: 3 (6.1)

Poison Inhalation Hazard: no data available

EMS-No: no data available



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UN number: 1230

Packing group: II

Class: 3 (6.1)

Proper shipping name: Methanol

## 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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Creation Date

24-Nov-2023

Revision Date

05-Dec-2023

Print Date

07-Dec-2023

Revision Summary

SDS sections updated v1

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