ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

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	: α-HCH
Product Number	: H491254
Brand	: aladdin
CAS-No.	: 319-84-6

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), H301
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H373	Causes damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
H301+H311	Toxic if swallowed or in contact with skin
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands [and ...] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER or doctor/... if you feel unwell.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P391	Collect spillage.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P302+P352	IF ON SKIN: wash with plenty of water.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
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

3.1 Substances

Synonyms	:	α-1,2,3,4,5,6-Hexachlorocyclohexane α-BHC α-Benzene hexachloride
Formula	:	C6H6Cl6
Molecular weight	:	290.83
CAS No.	:	319-84-6
EC-NO.	:	206-270-8

Component	Classification	Concentration
α-HCH		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H351, H400, H410 M-Factor - Aquatic Acute: 10	analytical standard

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Show the material safety specification to the doctor
If inhaled
If inhaled, remove the patient to fresh air. If breathing stops, perform artificial respiration. Consult a doctor.
In case of skin contact
Wear protective gloves when giving first aid. Take off contaminated clothes. Rinse, then wash skin with water and soap. If you feel unwell, see a doctor.
In case of eye contact
Rinse with plenty of water
If swallowed
Gargle. It is not feasible to take activated carbon slurry with water if convulsion occurs. Give immediate medical care.

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

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Extinguish the fire with water mist, alcohol resistant foam, dry powder or carbon dioxide.
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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Clean the leakage into non-metallic and airtight containers. If appropriate, wet them first to prevent dust. Carefully collect the residues and transfer them to a safe place. Do not let the chemical enter the environment. Personal protective equipment: filter respirator for organic gas and particulate matter with concentration in the air of this substance. Chemical protective clothing includes self-contained breathing apparatus. Protective gloves.

6.2 Environmental precautions

Contain the leakage to avoid polluting the environment. Prevent leakage from entering sewers, surface water and groundwater.

6.3 Methods and materials for containment and cleaning up

Small amount of leakage: collect the leaked liquid in airtight containers as far as possible. Absorb with sand, activated carbon or other inert materials and transfer to a safe place. Do not flush into the sewer. Massive leakage: build a dike or dig a pit for storage. Close the drainage pipe. Cover with foam to inhibit evaporation. Use explosion-proof pump to transfer to tank car or special collector, recycle or transport to waste disposal site for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operators should receive special training and strictly abide by the operating procedures. Operation and disposal should be carried out in places with local ventilation or comprehensive ventilation facilities. Avoid contact with eyes and skin, and avoid inhalation of steam. See Part 8 for personal protective measures. Keep away from kindling and heat sources. Smoking is strictly prohibited in the workplace. Use explosion-proof ventilation system 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 prohibited substances such as oxidants (see Part 10 for prohibited substances). Handle with care to prevent package and container damage. Emptied containers may leave harmful substances. Wash your hands after use and do not eat in the workplace. Equip with corresponding varieties and quantities of fire-fighting equipment and leakage emergency treatment equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container closed and store in a dry and ventilated place.

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

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	156-161°C
f) Initial boiling point and boiling range	288°C
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
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

When in contact with high-temperature surfaces or flames, the substance decomposes into toxic and corrosive fumes containing chlorine, hydrogen chloride and phosgene.

10.4 Conditions to avoid

Electrostatic discharge, heat, humidity, etc.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 177,0 mg/kg

Skin corrosion/irritation
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
This substance may affect the central nervous system and cause convulsions.
Specific target organ toxicity - repeated exposure
This substance may affect the central nervous system, kidney and liver. This substance is likely to be a human carcinogen.
Aspiration hazard
When diffusing, it can quickly reach the harmful concentration of particles in the air.
Additional Information

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish :

LC50 - Carassius auratus (goldfish) - 0,12 mg/l - 48,0 h

LC50 - Cyprinus carpio (Carp) - 0,2 mg/l - 48,0 h

LC50 - other fish - 1,49 mg/l - 96,0 h

Toxicity to daphnia and other aquatic invertebrates :

EC50 - Daphnia magna (Water flea) - 0,20 - 1,70 mg/l - 48 h

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

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Recycle as much as possible. If it cannot be recycled, incineration method shall be adopted for disposal. Do not dispose of this product by discharging it into the sewer.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 2811	Packing group: III	Class: 6.1
Proper shipping name: Toxic solid, organic, n.o.s. ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6- Hexachlorocyclohexane)	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: no data available
Environmental Hazards: yes		

IMDG

UN number: 2811	Packing group: III	EMS-No: no data available
Proper shipping name: Toxic solid, organic, n.o.s. ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6- Hexachlorocyclohexane)		

IATA

UN number: 2811	Packing group: III	Class: 6.1
Proper shipping name: Toxic solid, organic, n.o.s. ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6- Hexachlorocyclohexane)		

SECTION 15: Regulatory information

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

SECTION 16: Other information

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