Material Safety Data Sheet

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

1 - Product and Company Information

Product Name Product Number	HEXACHLOROACETONE, 99% H5308
Company	Sigma-Aldrich Pty. Ltd. 12 Anella Avenue Castle Hill NSW 2154
Technical Phone # Fax	+61 2 9841 0555 (1800 800 097) +61 2 9841 0500 (1800 800 096)
Emergency Phone #	+44 8701906777 (1800 448 465)

2 - Composition/Information on Ingredients

Product Name		CAS #	EC no	Annex I Index Number 606-032-00-7
HEXACHLORO-2-PROPANONE		116-16-5	204-129-5	
Formula Molecular Weight Synonyms	C3C160 264.75 AMU Acetone, hexachloro- * GC-1106 * HCA weedkiller * Hexachloro-2-propanone * 1,1,1,3,3,3-Hexachloro-2-propanone *			

3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Harmful if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2-Propanone, hexachloro-

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions. Explosion Hazards: Container explosion may occur under fire conditions. Forms explosive mixtures in air.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

SPECIAL REQUIREMENTS: May explode when heated.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Mechanical exhaust required. Safety shower and eye bath.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator. Hand Protection: Compatible chemical-resistant gloves. Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance	Physical State: Lig	uid
Property	Value	At Temperature or Pressure
рН	3.2	20 °C Concentration: 7.8 g/l
BP/BP Range MP/MP Range Flash Point	204 °C -2 °C 113 °C	Method: closed cup

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Flammability
                        N/A
Autoignition Temp
                       N/A
Oxidizing Properties
                       N/A
Explosive Properties
                       N/A
Explosion Limits
                       N/A
Vapor Pressure
                       N/A
                       1.743 \text{ g/cm}
SG/Density
Partition Coefficient
                       N/A
Viscosity
                        N/A
Vapor Density
                        N/A
Saturated Vapor Conc.
                       N/A
Evaporation Rate
                       N/A
Bulk Density
                        N/A
Decomposition Temp.
                       N/A
Solvent Content
                       N/A
Water Content
                       N/A
Surface Tension
                       N/A
Conductivity
                        N/A
Miscellaneous Data
                        N/A
Solubility
                        N/A
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10 - Stability and Reactivity

STABILITY

Stable: Stable.

Conditions of Instability: May explode when heated.

Materials to Avoid: Strong oxidizing agents, Strong bases Avoid contact with metals. May react with metals, releasing flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen chloride gas, Phosgene gas, Chlorine.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

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RTECS NUMBER: UC2100000
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ACUTE TOXICITY

LD50

Oral

Rat

240 mg/kg

LC50

Inhalation

Rat

360 ppm

Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Somnolence (general depressed activity). Lungs, Thorax, or Respiration: Chronic pulmonary edema.

LC50

Inhalation

Mouse

920 mg/m3

2H

LD50 Oral Doa 700 mg/kg LD50

Skin Rabbit 2980 mg/kg

IRRITATION DATA

Skin

Remarks: No irritation effect

Remarks: No irritation effect

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: Material is irritating to mucous membranes and upper

respiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

TARGET ORGAN INFORMATION

Liver. Kidneys. Central nervous system.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

UN#: 2661 Class: 6.1

Proper Shipping Name: Hexachloroacetone

IMDG

UN#: 2661 Class: 6.1

Proper Shipping Name: Hexachloroacetone

Marine Pollutant: No

Severe Marine Pollutant: No

TATA

UN#: 2661 Class: 6.1 PG: III

Proper Shipping Name: Hexachloroacetone

Inhalation Packing Group I: No

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

ANNEX I INDEX NUMBER: 606-032-00-7

INDICATION OF DANGER: Xn N

Harmful. Dangerous for the environment.

R-PHRASES: 22 51/53

Harmful if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-PHRASES: 24/25 61

Avoid contact with skin and eyes. Avoid release to the environment. Refer to special instructions/safety data sheets.

SWITZERLAND

SWISS POISON CLASS: 4

16 - Other Information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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