



MATERIAL SAFETY DATA SHEET

1,3-DICHLOROACETONE

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:

1,3-Dichloroacetone, 99

Catalog Numbers:

AC173630000, AC173630250, AC173630500, AC173631000, Ac173632500

Synonyms:

1,3-Dichloro-2-propanone.

Company Information:

LEONID CHEMICALS

62/A-2 1st Stage, Yeshwanthpur Industrial Suburb

Ashokpuram School Road

Bangalore-560 022, Karnataka, INDIA

Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	534-07-6
Chemical Name	:	1,3-Dichloroacetone
%	:	99 %
EINECS#	:	208-585-6
Hazard Symbols	:	Un Listed
Risk Phrases	:	Un Listed

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: white to pale yellow crystals.

Danger! May be fatal if swallowed. Harmful if absorbed through the skin. Causes severe eye and skin irritation. Vesicant (agent that induces blistering). Lachrymator (substance which increases the flow of tears). May cause respiratory and digestive tract irritation. Hygroscopic (absorbs moisture from the air). The toxicological properties of this material have not been fully investigated .

Target Organs:

None.

Potential Health Effects

Eye:

Causes severe eye irritation. Contact of the eye with the undiluted compound may result in death.

Skin:

Causes severe skin irritation. Harmful if absorbed through the skin.

Ingestion:

May be fatal if swallowed. May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation:

May be fatal if inhaled. The toxicological properties of this substance have not been fully investigated.

Chronic:

No information found.

SECTION 4- FIRST AID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. SPEEDY ACTION IS CRITICAL! Treat patient as for inhalation.

Skin:

Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

Treat symptomatically.

SECTION 5- FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Combustible material; may burn but does not ignite readily.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point:

Not applicable.

Autoignition Temperature:

590 deg C (1,094.00 deg F)

Explosion Limits, Lower:

Not available.

Upper:

Not available.

NFPA Rating:

(estimated) Health: 4; Flammability: 1; Instability: 0

SECTION 6- ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Sweep up, then place into a suitable container for disposal. Sweep up or absorb material,

then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.

SECTION 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep refrigerated. (Store below 4°C/39°F.)

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits :

Chemical Name	:	1,3-Dichloroacetone
ACGIH	:	none listed
NIOSH	:	none listed
OSHA - Final PELs	:	none listed

OSHA Vacated PELs:

1,3-Dichloroacetone: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard En166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Crystals
Appearance	:	white to pale yellow
Odor	:	None reported.
pH	:	Not available.

Vapor Pressure	:	0.4 mbar @ 20 C
Vapor Density	:	4.38
Evaporation Rate	:	Not available.
Viscosity	:	Not available.
Boiling Point	:	172.0 - 173.0 deg C @ 760.00m
Freezing/Melting Point	:	45 deg C
Decomposition Temperature	:	Not available.
Solubility	:	Soluble.
Specific Gravity/Density	:	1.3830g/cm ³
Molecular Formula	:	C ₃ H ₄ Cl ₂ O
Molecular Weight	:	126.97

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Ignition sources, dust generation, excess heat.

Incompatibilities with Other Materials:

Strong oxidizing agents - strong bases - reducing agents - moisture.

Hazardous Decomposition Products:

Hydrogen chloride, carbon monoxide, carbon dioxide.

Polymerization:

Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 534-07-6: Uc1430000

LD50/LC50:

CCAS# 534-07-6:

Draize test, rabbit, eye: 100 mg Severe;

Draize test, rabbit, skin: 500 mg Severe;

Inhalation, mouse: LC50 = 27 mg/m³/2H;

Inhalation, mouse: LC50 = 27 mg/m³;

Inhalation, rat: LC50 = 29 mg/m³/2H;

Inhalation, rat: LC50 = 29 mg/m³;

Oral, mouse: LD50 = 18900 ug/kg;

Oral, rat: LD50 = 20 mg/kg;

Skin, rabbit: LD50 = 53 mg/kg; <BR.

Oral, mice: LD50 = 18.9 mg/kg rats: LD50~ 20 mg/kg I, rabbits: LD50 = 250 mg/kg
LC50 = ,23 ppm (1-hour) of six rabbits died within one hour of ocular application of the undiluted test compound.

Carcinogenicity:

CAS# 534-07-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology : No data available.

Teratogenicity : No data available.

Reproductive Effects: No data available.

Mutagenicity : No data available.

Neurotoxicity : No data available.

Other Studies:

Un Listed

SECTION 12 - ECOLOGICAL INFORMATION

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

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RCRAP-Series : None listed.
RCRA U-Series : None listed.

SECTION 14 - TRANSPORT INFORMATION

US DOT

Shipping Name : 1,3-DICHLOROACETONE
Hazard Class : 6.1
UN Number : Un2649
Packing Group : II

Canada TDG

Shipping Name : 1,3-DICHLOROACETONE
Hazard Class : 6.1
UN Number : Un2649
Packing Group : II

SECTION 15 - REGULATORY INFORMATION

US FEDERAL

TSCA

CAS# 534-07-6 is listed on the TSCA inventory.

Health & Safety Reporting List

CAS# 534-07-6: Effective 6/1/87, Sunset 12/19/95

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding Rqs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

CAS# 534-07-6: 10 lb TPQ (lower threshold); 10000 lb TPQ (upper threshold)

Section 313:
No chemicals are reportable under Section 313.

Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE
CAS# 534-07-6 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts

California Prop 65:
California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols:
XI T+

Risk Phrases:
R 24 Toxic in contact with skin.
R 26/28 Very toxic by inhalation and if swallowed.
R 36/38 Irritating to eyes and skin.

Safety Phrases:
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)
CAS# 534-07-6: No information available.

Canada - DSL/NDSL:
CAS# 534-07-6 is listed on Canada's DSL List.

Canada WHMIS:
This product does not have a WHMIS classification.

Canadian Ingredient Disclosure List:
CAS# 534-07-6 is listed on the Canadian Ingredient Disclosure List.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other

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