

# CONTACT : LEONID CHEMICALS

62/A-2 2nd Stage, Industrial Suburb Ashokpuram School Road, Yeshwanthpur Bangalore-560 022, INDIA

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

# MATERIAL SAFETY DATA SHEET

alpha, alpha-Dichlorotoluene, 95%

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

-----

MSDS Name:

alpha, alpha-Dichlorotoluene, 95%

Catalog Numbers:

40702-0000, 40702-0050, 40702-1000

Synonyms: Benzal chloride

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 # : 98-87-3

Chemical Name : alpha,alpha-Dichlorotoluene

% : 95%

EINECS# : 202-709-2

Hazard Symbols : T

Risk Phrases : 22 23 37/38 40 41

#### **SECTION 3- HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

Harmful if swallowed. Toxic by inhalation. Irritating to respiratory system and skin. Limited evidence of a carcinogenic effect. Risk of serious damage to eyes.

# Potential Health Effects

Eve:

May cause eye irritation and possible damage.

Skin:

Causes skin irritation.

Ingestion:

Harmful if swallowed.



Inhalation: Causes respiratory tract irritation. Toxic if inhaled. Chronic: No information available.				
SECTION 4 - FIRST AID MEASURES				
Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.				
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes				
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. 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: No information available.				
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.				
Extinguishing Media Use agent most appropriate to extinguish fire.				
SECTION 6 - ACCIDENTAL RELEASE MEASURES				

# General Information:

Use proper personal protective equipment as indicated in Section 8.

#### Spills/Leaks

Clean up spills immediately, observing precautions in the Protective Equipment section.



# SECTION 7 - HANDLING AND STORAGE

\_\_\_\_\_

#### Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

#### Storage:

Store in a cool, dry place. Keep container closed when not in use.

# SECTION 8 - Exposure Controls, Personal Protection

### Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

#### Personal Protective Equipment

Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

.\_\_\_\_\_

# SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

------

Physical State : Clear liquid

Color : Colorless to yellow

Odor : No information available.
PH : No information available.
Vapor Pressure : No information available.
Viscosity : No information available.
Boiling Point : No information available.

Freezing/Melting Point : -16 deg C

Autoignition Temperature : No information available.
Flash Point : 88 deg C (190.40 deg F)
Explosion Limits, lower : No information available.
Explosion Limits, upper : No information available.
Decomposition Temperature : No information available.
Solubility in water : No information available.

Specific Gravity/Density : 1.290 Molecular Formula : C7H6Cl2 Molecular Weight : 161.03



### SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

Hazardous Polymerization:

No information avilable.

# SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 98-87-3: CZ5075000

LD50/LC50:

CAS# 98-87-3: Inhalation, mouse: LC50 = 32 ppm/2H; Inhalation, mouse: LC50 = 210 mg/m3; Inhalation, rat: LC50 = 61 ppm/2H; Inhalation, rat: LC50 = 400 mg/m3; Oral, mouse: LD50 = 2462 mg/kg; Oral, mouse: LD50 = 1400 mg/kg; Oral, rat: LD50 = 3249

mg/kg; Oral, rat: LD50 = 1400 mg/kg.

Carcinogenicity:

alpha, alpha-Dichlorotoluene - OSHA: Possible Select carcinogen IARC: Group 2A carcinogen See actual entry in RTECS for complete information.

SECTION 12 - FCOLOGICAL INFORMATION

No information available.

SECTION 13 -DISPOSAL CONSIDERATIONS

.....

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

Shipping Name : BENZYLIDENE CHLORIDE
Hazard Class : 6.1
UN Number : 1886
Packing Group : II



IMO

Shipping Name : BENZYLIDENE CHLORIDE

Hazard Class : 6.1 UN Number : 1886 Packing Group : II

RID/ADR

Shipping Name : BENZYLIDENE CHLORIDE

Hazard Class : 6.1 UN Number : 1886 Packing Group : II

\_\_\_\_\_

#### SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases: R 22 Harmful if swallowed.

R 23 Toxic by inhalation. R 37/38 Irritating to respiratory system and skin.

R 40 Limited evidence of a carcinogenic effect.

R 41 Risk of serious damage to eyes.

Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.

S 38 In case of insufficient ventilation, wear suitable respiratory equipment.

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# 98-87-3: 3

United Kingdom Occupational Exposure Limits

No information available.

United Kingdom Maximum Exposure Limits

No information available.

Canada

CAS# 98-87-3 is listed on Canada's NDSL List.

CAS# 98-87-3 is listed on Canada's Ingredient Disclosure List.

**Exposure Limits** 

CAS# 98-87-3: OEL-FINLAND; Carcinogen

OEL-GERMANY; Carcinogen
OEL-RUSSIA: STEL 0.5 mg/m3
OEL-SWEDEN; Carcinogen

**US FEDERAL** 

**TSCA** 

CAS# 98-87-3 is listed on the TSCA inventory.



# 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 warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.



