



MATERIAL SAFETY DATA SHEET

2,4-DICHLOROBENZOIC ACID

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:
2,4-Dichlorobenzoic acid, 98%

Catalog Numbers:
AC160900000, AC160900010, AC160900050, AC160901000, Ac160902500

Synonyms:
2,4-DCBA

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 # | : | 50-84-0 |
| Chemical Name | : | 2,4-Dichlorobenzoic acid |
| % | : | 98 % |
| EINECS# | : | 200-067-8 |
| Hazard Symbols | : | Un Listed |
| Risk Phrases | : | Un Listed |

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: white powder.

Caution! Causes eye irritation. Causes skin irritation. May cause respiratory and digestive tract irritation.

Target Organs:
None.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

Causes skin irritation.

Ingestion:

May cause irritation of the digestive tract.

Inhalation:

May cause respiratory tract irritation.

Chronic:

No information found.

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. 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 and supportively.

Antidote:

None reported.

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

Flash Point:

Not applicable.

Autoignition Temperature:

Not applicable.

Explosion Limits, Lower:

Not available.

Upper:

Not available.

NFPA Rating:

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

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. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation

SECTION 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits :

| | | |
|-------------------|---|--------------------------|
| Chemical Name | : | 2,4-Dichlorobenzoic acid |
| ACGIH | : | none listed |
| NIOSH | : | none listed |
| OSHA - Final PELs | : | none listed |

OSHA Vacated PELs:

2,4-Dichlorobenzoic acid: 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 | : | Powder |
| Appearance | : | white |
| Odor | : | None reported. |
| pH | : | Not available. |
| Vapor Pressure | : | Not available. |
| Vapor Density | : | 6.59 |
| Evaporation Rate | : | Not available. |
| Viscosity | : | Not available. |
| Boiling Point | : | Not available. |
| Freezing/Melting Point | : | 157.00 - 160.00 deg C |
| Decomposition Temperature | : | Not available. |
| Solubility | : | insoluble in heptane |
| Specific Gravity/Density | : | Not available. |
| Molecular Formula | : | C7H4Cl2O2 |
| Molecular Weight | : | 191.01 |

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, dust generation, strong oxidants.

Incompatibilities with Other Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Hydrogen chloride, carbon monoxide, carbon dioxide.

Polymerization:

Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 50-84-0: Dg6650000

LD50/LC50:

CAS# 50-84-0: Oral, mouse: LD50 = 830 mg/kg; <BR.

Carcinogenicity:

CAS# 2402-78-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

| | | |
|-----------------------|---|---------------------------|
| Epidemiology | : | No information available. |
| Teratogenicity | : | No information available |
| Reproductive Effects: | : | No information available |
| Mutagenicity | : | No information available |
| Neurotoxicity | : | No information 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.

-

| | | |
|--------------|---|--------------|
| RCRAP-Series | : | None listed. |
| RCRAU-Series | : | None listed. |

SECTION 14 - TRANSPORT INFORMATION

US DOT

| | | |
|---------------|---|---|
| Shipping Name | : | Please contact Fisher Scientific for shipping information |
| Hazard Class | : | |
| UN Number | : | |

Packing Group :
Canada TDG
Shipping Name : No information available.
Hazard Class :
UN Number :
Packing Group :

SECTION 15 - REGULATORY INFORMATION

US FEDERAL

TSCA
CAS# 50-84-0 is listed on the TSCA inventory.

Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.

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
None of the chemicals in this product have a TPQ.

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 depleters.
This material does not contain any Class 2 Ozone depleters.

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# 50-84-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

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

Risk Phrases:
R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:
S 24/25 Avoid contact with skin and eyes.
S 36 Wear suitable protective clothing.

WGK (Water Danger/Protection)
CAS# 50-84-0: No information available.

Canada - DSL/NDSL:
CAS# 50-84-0 is listed on Canada's NDSL List.

Canada WHMIS:
WHMIS: Not available.

Canadian Ingredient Disclosure List:
Un Listed

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 event shall Fisher 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 Fisher has been advised of the possibility of such damages.