



MATERIAL SAFETY DATA SHEET

COBALTOUS CHLOR CERT ACS

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:
Cobaltous Chlor Cert Acs 100g

Catalog Numbers: C/6500, C/6520, C/6560

Synonyms:
Un Listed

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 #	:	7791-13-1
Chemical Name	:	unlisted
%	:	unlisted
EINECS#	:	unlisted
Hazard Symbols	:	XN
Risk Phrases	:	22 36/37/38

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

Potential Health Effects

The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

SECTION 4- FIRST AID MEASURES

Eyes:

Not Available

Skin:

Not Availables

Ingestion:

Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Not Availables

Notes to Physician:
Un Listed

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.

Extinguishing Media:
Not available.

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.

SECTION 7 - HANDLING and STORAGE

Handling:
Not available.

Storage:
Not available.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

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

Personal Protective Equipment

Eyes:

Wear safety glasses and chemical goggles if splashing is possible.

Skin:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing:

Not Available.

Respirators:

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Solid
Color	:	Purple crystalline solid.
Odor	:	Not available.
pH	:	4.6 @ M solution.
Vapor Pressure	:	Negligible.
Viscosity	:	Not available.
Boiling Point	:	1920 deg F
Freezing/Melting Point	:	87 deg C

Autoignition Temperature : Not available.
Flash Point : Noncombustible.
Explosion Limits, lower : Not available.
Explosion Limits, upper : Not available.
Decomposition Temperature : 230 deg F
Solubility in water : 77 g/100ml (0 C)
Specific Gravity/Density : 1.924
Molecular Formula : $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$
Molecular Weight : 237.9196

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Not available.
Incompatibilities with Other Materials:
Moisture - oxidizing agents - alkali metals.
Hazardous Decomposition Products:
Hydrogen chloride.
Polymerization:
Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 7791-13-1: Gg0200000

LD50/LC50:
CAS# 7791-13-1: Oral, rat: LD50 = 766 mg/kg; Skin, rat: LD50 = >2 gm/kg.

Carcinogenicity:
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
See actual entry in RTECS for complete information.

Other:
Un Listed

SECTION 12 - ECOLOGICAL INFORMATION

Un Listed

SECTION 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14 - TRANSPORT INFORMATION

IATA
Shipping Name : TOXIC SOLID, INORGANIC, N.O.S.
Hazard Class : 6.1
UN Number : 3288

Packing Group : II

IMO
Shipping Name : TOXIC SOLID, INORGANIC, N.O.S.
Hazard Class : 6.1
UN Number : 3288
Packing Group : II

ID/ADR
Shipping Name : TOXIC SOLID, INORGANIC, N.O.S.
Hazard Class : 6.1
UN Number : 3288
Packing Group : II

SECTION 15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:

XN

Risk Phrases:

R 22 Harmful if swallowed.

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

Safety Phrases:

S 22 Do not breathe dust.

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 7791-13-1: 2

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 7791-13-1 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

Un Listed

US FEDERAL

TSCA

CAS# 7791-13-1 is not on the TSCA Inventory because it is a hydrate.

It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

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.

