

Material Safety Data Sheet

Chlorosulfonic acid

Section 1 - Chemical Product and Company Identification

MSDS Name: Chlorosulfonic acid, 98%

Catalog Numbers: AC181360000, AC181360010, AC181360250, AC181361000, AC181365000

Synonyms:

Company Identification:

Industrial Solvents & Chemicals Pvt Ltd

Plot No 7906 to 7909

GIDC, Ankleshwar 393002

For information, call: 91-2646 239554

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7790-94-5	Chlorosulfonic acid	98%	232-234-6

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: cloudy, colorless viscous liquid.

Hygroscopic (absorbs moisture from the air).

Target Organs: None known.

Potential Health Effects

Eye: Causes eye burns. Lachrymator (substance which increases the flow of tears).

Skin: Causes skin burns.

Ingestion: Causes gastrointestinal tract burns.

Inhalation: Causes respiratory tract irritation. Causes chemical burns to the respiratory tract.

Chronic: Not available.

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.

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

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

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

Notes to Physician: Treat symptomatically and supportively.

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: Do NOT use water directly on fire. Use foam, dry chemical, or carbon dioxide.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: 3.30 vol %

Upper: 37.70 vol %

NFPA Rating: (estimated) Health: 4; Flammability: 0; Instability: 2; Special Hazard: - W-; Special Hazard: OX

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Section 7 - Handling and Storage

Handling: Do not get on skin and clothing. Do not breathe dust, mist, or vapor. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container. Corrosives area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Chlorosulfonic acid	none listed	none listed	none listed

OSHA Vacated PELs: Chlorosulfonic acid: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Not available.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

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: Viscous liquid

Appearance: cloudy, colorless

Odor: pungent odor

pH: Not available.

Vapor Pressure: 1 mm Hg @ 20C

Vapor Density: 4.02

Evaporation Rate: Not available.

Viscosity: 3 cP 16.00 deg C

Boiling Point: 151 - 152 deg C @ 755.00mm Hg

Freezing/Melting Point: -80 deg C

Decomposition Temperature: > 151 deg C

Solubility: reacts

Specific Gravity/Density: 1.7530g/cm³

Molecular Formula: ClSO₃H

Molecular Weight: 116.52

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, organic materials.

Incompatibilities with Other Materials: Water, metals, acids, bases, alcohols, amines, finely powdered metals, plastics.

Hazardous Decomposition Products: Hydrogen chloride, oxides of sulfur.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 7790-94-5: FX5730000

LD50/LC50:

CAS# 7790-94-5:

Oral, rat: LD50 = 50 mg/kg;

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Carcinogenicity:

CAS# 7790-94-5: 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:

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.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	CHLOROSULFONIC ACID	CHLOROSULFONIC ACID
Hazard Class:	8	8
UN Number:	UN1754	UN1754
Packing Group:	I	I

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7790-94-5 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

CAS# 7790-94-5: 1000 lb final RQ; 454 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7790-94-5: immediate, delayed, fire, reactive.

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:

CAS# 7790-94-5 is listed as a Hazardous Substance 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# 7790-94-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

Hazard Symbols:

C

Risk Phrases:

R 14 Reacts violently with water.

R 35 Causes severe burns.

R 37 Irritating to respiratory system.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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# 7790-94-5: 2

Section 16 - Additional Information

MSDS Creation Date: 01/01/2013

Revision Date: 01/01/2017

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