

# Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company  
Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,  
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)  
Tel : + 91 98200 41841 Email : [info@ottokemi.com](mailto:info@ottokemi.com) Web : [www.ottokemi.com](http://www.ottokemi.com)

Creation Date: 20-08-2026

Revision Date: 18-07-2021

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Product identifiers

Product Name: Chlorosulfonic acid, GR 99%+  
Product Code: C 2167  
CAS No: 7790-94-5

1.2. Relevant identified uses of the substance or mixture and uses advised against  
Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet  
Company identification  
OTTO CHEMIE PVT LTD  
No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,  
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number  
Phone no. : + 91 98200 41841 (10 : 00 am – 06 : 00 pm)

### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture  
Classification (REGULATION (EC) No 1272/2008)  
Acute toxicity, Category 1  
Skin corrosion, Sub-category 1A

Serious eye damage, Category 1  
Specific target organ toxicity -  
single exposure, Category 3,  
Respiratory system  
2.2 Label elements  
Labelling (REGULATION (EC) No 1272/2008)  
Hazard pictograms  
Signal word  
Hazard statements

Supplemental Hazard  
Statements  
Precautionary  
statements

H330: Fatal if inhaled.  
H314: Causes severe skin burns and eye  
damage.  
H318: Causes serious eye damage.  
H335: May cause respiratory irritation.  
:  
: Danger  
: H314 Causes severe skin burns and eye damage.  
H330 Fatal if inhaled.  
H335 May cause respiratory irritation.  
: EUH014 Reacts violently with water.

Prevention:  
P260 Do not breathe mist or vapours.  
P271 Use only outdoors or in a well-ventilated  
area.  
P280 Wear protective gloves/ protective clothing/  
eye protection/ face protection.  
Response:  
P303 + P361 + P353 IF ON SKIN (or hair): Take off  
immediately all contaminated clothing.  
Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to  
fresh air and keep comfortable for  
breathing. Immediately call a POISON  
CENTER/ doctor.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with  
water for several minutes. Remove contact  
lenses, if present and easy to do. Continue  
rinsing.

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Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H330

H314

Precautionary Statements

P260

P271

P280

P303 + P361 + P353

P304 + P340 + P310

P305 + P351 + P338

:  
Danger

Fatal if inhaled.

Causes severe skin burns and eye damage.

Do not breathe mist or vapours.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard information (EU)

EUH014

Reacts violently with water.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

3.1 Substances

EC-No. : 232-234-6

Components

| Chemical name        | CAS-No.<br>EC-No.      | Concentration (% w/w) | M-Factor, SCL, ATE                                                      |
|----------------------|------------------------|-----------------------|-------------------------------------------------------------------------|
| chlorosulphonic acid | 7790-94-5<br>232-234-6 | >= 90 - <= 100        | Acute toxicity estimate Acute inhalation toxicity (vapour): 0,0385 mg/l |

## SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aiders need to protect themselves.

Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Immediately call in physician.

If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Call a physician immediately.

In case of eye contact : After eye contact: rinse out with plenty of water.

Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed : After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation).

Call a physician immediately.

Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Water

Foam

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during

fire fighting

Container explosion may occur under fire conditions.

Not combustible.

May not get in touch with: Water

Ambient fire may liberate hazardous vapours.

Hazardous combustion products

Sulphur oxides

Hydrogen chloride gas

### 5.3 Advice for firefighters

Special protective

equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information : Gives off hydrogen by reaction with metals.

Reacts with water to liberate flammable and/or explosive gas.

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel: Do not breathe vapours, aerosols.

Avoid substance contact. Ensure adequate ventilation.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

### 6.2 Environmental precautions

Environmental precautions

Do not let product enter drains.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Work under hood. Do not inhale substance/mixture.

Avoid generation of vapours/aerosols.

Keep workplace dry. Do not allow product to come into contact with water.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Further information on

storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.

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Advice on common storage

Keep away from water.

Avoid contact with:

Metals

Never allow product to get in contact with water during storage.

Storage class (TRGS 510) : 6.1B, Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

Further information on

storage stability

Air and moisture sensitive.

Handle under nitrogen, protect from moisture.

Store under nitrogen.

Recommended storage

temperature

Recommended storage temperature see product label.

Packaging material : Suitable material: Amber Glass Bottle/Jar

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

8.2 Exposure controls

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Tightly fitting safety goggles

Hand protection

Material : Viton®

Break through time : 480 min

Glove thickness : 0,7 mm

Protective index : Full contact

Manufacturer : Vitoject®

Material : butyl-rubber

Break through time : 60 min

Glove thickness : 0,7 mm

Protective index : Splash contact

Manufacturer : Butoject® (KCL 898)

Remarks : This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Skin and body protection : Acid-resistant protective clothing

Respiratory protection : required when vapours/aerosols are generated.

Our recommendations on filtering respiratory

protection are based on the following standards: DIN

EN 143, DIN 14387 and other accompanying

standards relating to the used respiratory protection system.

Recommended Filter type: Filter B-(P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Environmental exposure controls

Advice : Do not let product enter drains.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                     |                                           |
|-----------------------------------------------------|-------------------------------------------|
| Physical state                                      | : liquid                                  |
| Colour                                              | : Colourless                              |
| Odour                                               | : pungent                                 |
| Melting point/ range                                | : -80 °C                                  |
| Boiling point/boiling range                         | : 151 - 152 °C (1.007 hPa)                |
| Flammability                                        | : The product is not flammable.           |
| Upper explosion limit /<br>Upper flammability limit | : No data available                       |
| Lower explosion limit /<br>Lower flammability limit | : No data available                       |
| Flash point                                         | : No data available                       |
| Autoignition temperature                            | : No data available                       |
| Decomposition<br>temperature                        | : No data available                       |
| pH                                                  | : < 1 (20 °C)                             |
| Viscosity                                           |                                           |
| Viscosity, dynamic                                  | : 3 mPa.s (15 °C)                         |
| Viscosity, kinematic                                | : No data available                       |
| Flow time                                           | : No data available                       |
| Water solubility                                    | : No data available                       |
| Partition coefficient: noctanol/water               | : Not applicable for inorganic substances |
| Vapour pressure                                     | : 146,65 Pa (32 °C)                       |
| Relative density                                    | : No data available                       |
| Density                                             | : 1,753 g/mL (25 °C)                      |
| Relative vapour density                             | : 4,02<br>(Air = 1.0)                     |

### 9.2 Other information

|                      |                                |
|----------------------|--------------------------------|
| Explosives           | : Not classified as explosive. |
| Oxidizing properties | : none                         |
| Burning rate         | : No data available            |
| Evaporation rate     | : No data available            |
| Molecular weight     | : 116,52 g/mol                 |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reacts violently with water.

### 10.2 Chemical stability

sensitive to moisture

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Violent reactions possible with:

Alcohols

Ketones

organic nitro compounds

sulfuric acid

oxidisable substances

n-heptane

acetic acid

Powdered metals

acids

Risk of explosion with:

Water

alkalines

phosphorus

### 10.4 Conditions to avoid

Conditions to avoid : Moisture.

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Components:

chlorosulphonic acid:

Toxicity to algae/aquatic plants

ErC50 (Desmodesmus subspicatus (green algae)): 23,2 mg/l

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### 12.2 Persistence and degradability

Components:

chlorosulphonic acid:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

Components:

chlorosulphonic acid:

Partition coefficient: noctanol/water

Remarks: Not applicable for inorganic substances

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

Components:

chlorosulphonic acid:

Additional ecological information

Product reacts with water.

Harmful effect due to pH shift.

Forms corrosive mixtures with water even if diluted.

Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

|      |                             |
|------|-----------------------------|
| ADR  | : UN 1754                   |
| IMDG | : UN 1754                   |
| IATA | : UN 1754                   |
|      | Not permitted for transport |

### 14.2 UN proper shipping name

|      |                             |
|------|-----------------------------|
| ADR  | : CHLOROSULPHONIC ACID      |
| IMDG | : CHLOROSULPHONIC ACID      |
| IATA | : Chlorosulphonic acid      |
|      | Not permitted for transport |

### 14.3 Transport hazard class(es)

|      | Class                         | Subsidiary risks |
|------|-------------------------------|------------------|
| ADR  | : 8                           |                  |
| IMDG | : 8                           |                  |
| IATA | : Not permitted for transport |                  |

### 14.4 Packing group

|                         |                               |
|-------------------------|-------------------------------|
| ADR                     |                               |
| Packing group           | : I                           |
| Classification Code     | : C1                          |
| Hazard Identification   | : X88                         |
| Number                  |                               |
| Labels                  | : 8                           |
| Tunnel restriction code | : (E)                         |
| IMDG                    |                               |
| Packing group           | : I                           |
| Labels                  | : 8                           |
| EmS Code                | : F-A, S-B                    |
| IATA (Cargo)            | : Not permitted for transport |
| IATA_P (Passenger)      | : Not permitted for transport |

### 14.5 Environmental hazards

|                           |      |
|---------------------------|------|
| ADR                       |      |
| Environmentally hazardous | : no |
| IMDG                      |      |
| Marine pollutant          | : no |

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments  
Not applicable for product as supplied.

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)  
Conditions of restriction for the following entries should be considered:

Number on list 3:  
chlorosulphonic acid

Number on list 3

Number on list 75

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very

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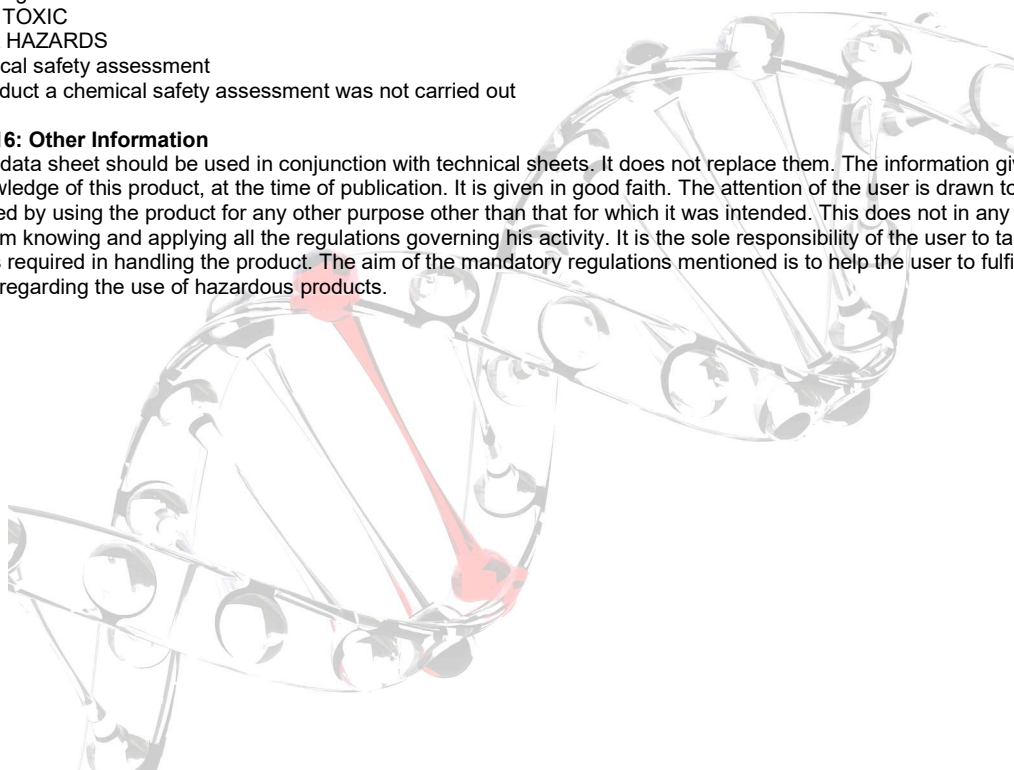
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High Concern for Authorisation (Article 59).  
Not applicable  
Regulation (EU) No 2024/590 on substances that  
deplete the ozone layer  
Not applicable  
Regulation (EU) 2019/1021 on persistent organic  
pollutants (recast)  
Not applicable  
REACH - List of substances subject to  
authorisation (Annex XIV)  
Not applicable  
Seveso III: Directive 2012/18/EU of the  
European Parliament and of the Council  
on the control of major-accident hazards  
involving dangerous substances.  
H1 ACUTE TOXIC  
O1 OTHER HAZARDS  
15.2 Chemical safety assessment  
For this product a chemical safety assessment was not carried out

## SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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