# Chemical Safety Data Sheet MSDS / SDS

# Oxymetazoline

Revision Date:2025-07-05 Revision Number:1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product name	: Oxymetazoline	
CBnumber	: CB0371500	
CAS	: 1491-59-4	
EINECS Number	: 216-079-1	
Synonyms	: Oxymetazoline,oxymethazoline	
Relevant identified uses of the substance or mixture and uses advised against		
Relevant identified uses	: For R&D use only. Not for medicinal, household or other use.	
Uses advised against	: none	
Company Identification		
Company	: Chemicalbook	
Address	: Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing	
Telephone	: 010-86108875	

# SECTION 2: Hazards identification

#### Classification of the substance or mixture

Acute toxicity - Category 1, Oral Serious eye damage, Category 1

Acute toxicity - Category 1, Inhalation Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 3

#### Label elements

# Pictogram(s) □ Signal word Danger Hazard statement(s) H300 Fatal if swallowed H318 Causes serious eye damage H330 Fatal if inhaled H412 Harmful to aquatic life with long lasting effects Precautionary statement(s)

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#### Prevention

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P264 Wash ... thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... P260 Do not breathe dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P284 [In case of inadequate ventilation] wear respiratory protection. P273 Avoid release to the environment. Response P301+P316 IF SWALLOWED: Get emergency medical help immediately. P321 Specific treatment (see ... on this label). P330 Rinse mouth. P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P317 Get medical help. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P316 Get emergency medical help immediately. P320 Specific treatment is urgent (see ... on this label). Storage P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed. Disposal

# P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

#### Other hazards

no data available

# SECTION 3: Composition/information on ingredients

#### Substance

Product name	: Oxymetazoline
Synonyms	: Oxymetazoline,oxymethazoline
CAS	: 1491-59-4
EC number	: 216-079-1
MF	: C16H24N2O
MW	: 260.37

# **SECTION 4: First aid measures**

#### Description of first aid measures

#### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately.

Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

#### Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

#### Most important symptoms and effects, both acute and delayed

no data available

#### Indication of any immediate medical attention and special treatment needed

VET:/ Decontamination may not be practical due to the rapid absorption and onset of clinical signs. Heart rate and rhythm and blood pressure should be assessed, and an ECG obtained if needed. IV fluids should be given, along with atropine at 0.02 mg/kg, IV, if bradycardia is present. Diazepam (0.25-0.5 mg/kg, IV) can be given if CNS signs (eg, apprehension, shaking) are present. Serum electrolytes (ie, potassium, sodium, chloride) should be assessed and corrected as needed. Yohimbine, which is a specific a2-adrenergic antagonist, can also be used at 0.1 mg/kg, IV, and repeated in 2-3 hr if needed. Imidazoline decongestants

# SECTION 5: Firefighting measures

#### **Extinguishing media**

Use dry chemical, carbon dioxide or alcohol-resistant foam.

#### **Specific Hazards Arising from the Chemical**

no data available

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

# SECTION 6: Accidental release measures

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

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use sparkproof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# SECTION 7: Handling and storage

#### Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

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

Oxymetazoline hydrochloride nasal solutions should be stored in tight containers at a temperature less than 40 deg C, preferably at 2-30 deg C; freezing should be avoided. Oxymetazoline hydrochloride ophthalmic solutions should be stored at 15-30 deg C. Oxymetazoline is probably degraded in the presence of aluminum and, therefore, should not be stored in aluminum containers.

# SECTION 8: Exposure controls/personal protection

#### **Control parameters**

#### **Occupational Exposure limit values**

no data available

Biological limit values

no data available

#### **Exposure controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area.

#### Individual protection measures

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Respiratory protection**

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

# SECTION 9: Physical and chemical properties

#### Information on basic physicochemical properties

Odourno data availableMelting point/freezing point182°CBoiling point or initial boiling point and boiling range431.9°C at 760 mmHgFlammabilityno data availableLower and upper explosionno data availableLower and upper explosionno data availableImit/flammability limit215°CFlash point215°CAuto-ignition temperatureno data availablepHno data availableKinematic viscosityno data availableSolubilityinsoluble in diethyl ether, chloroform, and benzenePartition coefficient n-octanol/waterno data availableVapour pressure4.59E-08mmHg at 25°CDensity and/or relative densityno data availableRelative vapour densityno data available	Physical state	Solid
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	Density and/or relative density	1.08 g/cm3
Particle characteristics no data quallable	Relative vapour density	no data available
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# SECTION 10: Stability and reactivity

#### Reactivity

no data available

#### **Chemical stability**

Stable in light & heat, & is nonhygroscopic hydrochloride

#### Possibility of hazardous reactions

no data available

#### Conditions to avoid

no data available

#### Incompatible materials

no data available

#### Hazardous decomposition products

When heated to decomposition it emits toxic fumes of /nitrogen oxides/.

# SECTION 11: Toxicological information

#### Acute toxicity

- Oral: LD50 Rat oral 800 ug/kg
- Inhalation: no data available
- Dermal: no data available

#### Skin corrosion/irritation

no data available

#### Serious eye damage/irritation

no data available

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

no data available

#### **Reproductive toxicity**

no data available

#### STOT-single exposure

no data available

#### STOT-repeated exposure

no data available

#### Aspiration hazard

no data available

# **SECTION 12: Ecological information**

#### Toxicity

Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: no data available Toxicity to algae: no data available

Toxicity to microorganisms: no data available

#### Persistence and degradability

no data available

**Bioaccumulative potential** 

no data available

#### Mobility in soil

no data available

#### Other adverse effects

no data available

# SECTION 13: Disposal considerations

#### **Disposal methods**

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

### **SECTION 14: Transport information**

#### **UN Number**

ADR/RID: UN3249 (For reference only, please check.) IMDG: UN3249 (For reference only, please check.) IATA: UN3249 (For reference only, please check.)

#### **UN Proper Shipping Name**

ADR/RID: MEDICINE, SOLID, TOXIC, N.O.S. (For reference only, please check.) IMDG: MEDICINE, SOLID, TOXIC, N.O.S. (For reference only, please check.) IATA: MEDICINE, SOLID, TOXIC, N.O.S. (For reference only, please check.)

#### Transport hazard class(es)

ADR/RID: 6.1 (For reference only, please check.) IMDG: 6.1 (For reference only, please check.) IATA: 6.1 (For reference only, please check.)

#### Packing group, if applicable

ADR/RID: II (For reference only, please check.) IMDG: II (For reference only, please check.) IATA: II (For reference only, please check.)

#### **Environmental hazards**

ADR/RID: No

IMDG: No

IATA: No

#### Special precautions for user

no data available

#### Transport in bulk according to IMO instruments

no data available

# SECTION 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS) Listed. **EC Inventory** Listed. United States Toxic Substances Control Act (TSCA) Inventory Not Listed. China Catalog of Hazardous chemicals 2015 Not Listed. New Zealand Inventory of Chemicals (NZIoC) Not Listed. PICCS Not Listed. **Vietnam National Chemical Inventory** Listed. IECSC Not Listed. Korea Existing Chemicals List (KECL) Not Listed.

# **SECTION 16: Other information**

#### Abbreviations and acronyms

CAS: Chemical Abstracts Service ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulation concerning the International Carriage of Dangerous Goods by Rail IMDG: International Maritime Dangerous Goods IATA: International Air Transportation Association TWA: Time Weighted Average STEL: Short term exposure limit LC50: Lethal Concentration 50% LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?

pageID=0&request\_locale=en

CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

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