



Material Safety Data Sheets

1. IDENTIFICATION

Product Name Sodium Oxalate

Other Names Sodium Ethanedioate; Oxalate of Sodium

UsesLaboratory reagent; used in chemical synthesis, analytical chemistry, and various industrial applications.

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Chemical NameNo Data AvailableProduct DescriptionNo Data AvailableCompanyArman sina.co

Contact Information <u>info@armansina.com</u>

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2. HAZARD IDENTIFICATION

Hazard Categories Acute Toxicity, Oral: Category 4

Skin Irritation: Category 2 Eye Irritation: Category 2

Signal Word Warning

Hazard Statements H302 Harmful if swallowed.

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements Prevention

P260 Do not breathe dust.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves, protective clothing, and eye protection.

P302 + P352

Wear protective gloves, protective clothing, and eye protection.

IF SWALLOWED: Rinse mouth. Do not induce vomiting; seek medical advice

immediately.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for at least 15 minutes; remove

contact lenses if present and seek medical attention.

P273 Avoid release to the environment.

Symbol



3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium Oxalate	$Na_2C_2O_4$	127-59-4	<= 99 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical

care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer

activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

Eye After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

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

Inhaled After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary

also oxygen.

Advice to Doctor Consult a doctor in case of discomfort showing the SDS for the product.

5. FIRE FIGHTING MEASURES

General Measures Sodium oxalate is a non-combustible solid and does not support combustion under normal conditions. However, under fire

conditions, decomposition may occur with the release of toxic products such as oxalic acid vapors and carbon monoxide.

Flammability Conditions No Data Available

Fire and Explosion Hazard No Data Available

Hazardous Products of

Combustion

No Data Available

Special Fire Fighting Instructions Firefighters should wear full protective equipment, including a self-contained breathing apparatus (SCBA). If safe, cool surrounding containers with a water spray to prevent heat buildup.

Personal Protective EquipmentNo Data AvailableFlash PointNo Data AvailableLower Explosion LimitNo Data AvailableUpper Explosion LimitNo Data AvailableAuto Ignition TemperatureNo Data AvailableHazchem CodeNo Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Evacuate the area and restrict access. Avoid generating dust and ensure adequate ventilation.

Clean Up Procedures Sweep up the dust using non-sparking tools. Collect the material in a suitable, sealable container. Prevent dispersion into the

environment.Clean the area with a damp cloth and dispose of the waste according to local regulations.

Containment Secure and isolate the spill area until proper disposal measures can be implemented.

Decontamination No Data Available

Environmental Precautionary

Measures

Do not let product enter drains.

Evacuation Criteria No Data Available

Personal Precautionary Measures. Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact.

Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal

protection see section 8.

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7. HANDLING AND STORAGE

Handling Handle under conditions that minimize dust formation. Use appropriate personal protective equipment (PPE) such as gloves,

dust masks, and safety goggles. Avoid contact with incompatible substances, particularly strong acids.

Storage Protected from light. Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to

qualified or authorized persons. Recommended storage temperature see product label.

Container Keep containers tightly closed

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General

Exposure Limits No specific occupational exposure limits established for sodium oxalate; minimize dust exposure.

Biological Limits No Data Available

Engineering Measures Employ local exhaust ventilation or dust collection systems in areas where dust generation is possible.

Personal Protection Equipment Eye/Face Protection: Safety goggles or face shield

Skin Protection: Use protective gloves (nitrile or equivalent) and a lab coat. Respiratory Protection: In situations where

dust is generated, use a dust mask or appropriate respirator.

Special Hazards Precaustions No Data Available

Work Hygienic Practices Avoid eating, drinking, or smoking during handling.

Wash hands and face after handling the substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance White crystalline powder

Odour No Data Available

Colour white

pH Neutral to slightly alkaline (depending on concentration)

 Vapour Pressure
 No Data Available

 Relative Vapour Density
 No Data Available

 Boiling Point
 No Data Available

Melting Point > 600 °C (decomposes on heating)

Freezing Point No Data Available

Solubility Soluble (approximately 13–15 g/100 mL at 20 °C)

Specific GravityNo Data AvailableFlash PointNo Data AvailableAuto Ignition TempNo information available.

Evaporation Rate No Data Available

Bulk Density Approximately 1.35 g/cm³

Corrosion Rate No Data Available

Decomposition Temperature > 600 °C

Density No Data Available No Data Available **Specific Heat Molecular Weight** 134.0 g/mol No Data Available **Net Propellant Weight Octanol Water Coefficient** No Data Available **Particle Size** No Data Available No Data Available **Partition Coefficient** Saturated Vapour Concentration No Data Available No Data Available **Vapour Temperature** No Data Available Viscosity Volatile Percent No Data Available

Additional Characteristics

Potential for Dust Explosion
Fast or Intensely Burning

No information available
No information available

Characteristics

VOC Volume

Flame Propagation or Burning No information

Rate of Solid Materials

No information available.

No Data Available

Non-Flammables That Could No information available.

Contribute Unusual Hazards to a

Fire

Properties That May Initiate or

Contribute to Fire Intensity

No information available.

Reactions That Release Gases or No information available.

Vapours

Release of Invisible Flammable No information available. Vapours and Gases No information available.

10. STABILITY AND REACTIVITY

General Information Possibility of hazardous reactions Risk of explosion with: Alkali metals Risk of ignition or formation of inflammable gases or

vapours with: halogen-halogen compounds

Chemical Stability Chemically stable under recommended storage conditions.

Conditions to AvoidContact with strong acids (which can convert sodium oxalate to oxalic acid).

Excessive moisture which may lead to clumping.

Materials to Avoid Strong acids

Strong oxidizing agents

Hazardous Decomposition

Products

On decomposition (e.g., due to fire), toxic gases such as carbon monoxide and oxalic acid vapors may be released.

Hazardous Polymerisation No data available

11. TOXICOLOGICAL INFORMATION

General Information Acute Toxicity:Oral: Harmful if ingested.

May cause gastrointestinal irritation (estimated LD50, rat, oral ≈ 2900 mg/kg). Dermal: May cause skin irritation on contact. Inhalation: Dust exposure may irritate the respiratory tract. Chronic Health Effects: Repeated or prolonged inhalation or skin exposure to dust may lead to respiratory discomfort or irritation and—at significant exposures—renal effects due to oxalate accumulation. Other Considerations: Ingestion may result in nausea, abdominal pain, and

diarrhea. No evidence presents sodium oxalate as a carcinogen when handled properly.

Acute

12. ECOLOGICAL INFORMATION

EcotoxicitySodium oxalate may be harmful to aquatic organisms if large amounts are released into water systems.

Persistence/Degradability Readily soluble in water and is expected to biodegrade under normal environmental conditions.

Mobility High water solubility suggests potential migration in aquatic environments.

Environmental Fate No Data Available

Bioaccumulation Potential Low bioaccumulation potential.

Environmental Impact Uncontrolled release into the environment, particularly into waterways, may have adverse effects on aquatic life.

13. DISPOSAL CONSIDERATIONS

General Information Dispose of sodium oxalate and any contaminated packaging in accordance with local, regional, and national regulations.

Special Precautions for Land Fill

Do not dispose of with regular waste. Collect waste in a sealed container clearly marked as hazardous waste. Use a licensed hazardous waste disposal contractor for proper disposal. Special Precautions: Prevent any material release into

the environment. Refer to Section 6 for spill clean-up procedures.

14. TRANSPORT INFORMATION

Land Transport

Proper Shipping Name Sodium Oxalate Class No Data Available Subsidiary Risk(s) No Data Available **EPG** No Data Available **UN Number** No Data Available Hazchem No Data Available **Pack Group** No Data Available No Data Available **Special Provision**

Sea Transport

Sodium Oxalate **Proper Shipping Name** No Data Available Class No Data Available Subsidiary Risk(s) No Data Available **UN Number** No Data Available Hazchem No Data Available Pack Group No Data Available **Special Provision** No Data Available **EMS**

Marine Pollutant no

Air Transport

Proper Shipping Name

Class

No Data Available
Subsidiary Risk(s)

No Data Available
UN Number

No Data Available
Hazchem

No Data Available
Pack Group

No Data Available
Special Provision

No Data Available

15. OTHER INFORMATION

Revision 2

Key/Legend

< Less Than

> Greater Than

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square Centimetres

CO2 Carbon Dioxide

COD Chemical Oxygen Demand deg C (° C) Degrees Celcius

deg F (° F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH2O Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50%

(one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH2O Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight