

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: SELENIC ACID
CAS#: 7783-08-6
Chemical Name: SELENIC ACID
Chemical Formula: Not available.

Composition and Information on Ingredients

Name	S.K.U	% by Weight
SELENIC ACID	GCS-9630	40 %
WATER	7732-18-5	60 %

Hazards Identification

Toxic by inhalation, in contact with skin and if swallowed. Corrosive to skin, eyes and respiratory tract. Danger

Emergency Overview:
of cumulative effects.

Primary Routes of Exposure:
Ingestion, inhalation,
skin, eyes Eye Contact:

Causes burns to the
eyes.

Skin Contact: Causes burns to the skin, and upon repeated contact, dermatitis.
May be absorbed through the skin.

Inhalation: Toxic and corrosive by inhalation.

Ingestion: Toxic if swallowed. Ingestion may lead to nausea, vomiting, diarrhea,
weakness, and chronic diseases.

Corrosive to skin, eyes and respiratory tract. Toxic by inhalation, in contact with
skin and if swallowed. May

Acute Health Affects: cause vomiting, bloody diarrhea, weakness, chills, headache,
and delayed pulmonary edema.

Danger of cumulative effects. Prolonged exposure to selenium compounds may cause
dermatitis, diarrhea,

Chronic Health Affects: liver damage, nervous disorders, lameness, and
loss of vitality. Equivocal tumorigenic agent by RTECS
criteria. Reproductive effector

NTP: No

IARC: No

OSHA: No

First Aid Measures

Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need Eye Exposure: assistance in keeping their eye lids open. Get immediate medical attention. Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if Skin Exposure: irritation persists. Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in Inhalation, breathing, coughing, wheezing or pain. In such cases seek immediate medical assistance. Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce Ingestion: vomiting only if directed by medical personnel.

Fire and Explosion Data

Flash Point: no data available.
Autoignition
Temperature:
no data available.
Explosion Limits:
no data available.
Extinguishing Medium: None required
If this product is involved in a fire, firefighters should be equipped with NIOSH approved positive pressure Special Fire Fighting Procedures: self-contained breathing apparatus.
Hazardous Combustion and If involved in a fire, this material may emit toxic and corrosive fumes. Decomposition Products: Unusual Fire or Explosion Hazards: No unusual fire or explosion hazard.

Accidental Release Measures

Small spills can be absorbed into vermiculite or other suitable adsorbent. Sweep up the material and dispose Spill and Leak Procedures: Not available.

Handling and Storage

Precautions for safe handling and storage: Store the material in a sealed container.

Exposure Controls/Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: The material is corrosive and can be absorbed through the skin. Wear gloves and full protective clothing.
Ventilation: Handle the material in an efficient fume hood. If ventilation is not available a respirator should

be worn.

Respirator: Protection Program to be in compliance with 29 CFR 1910.134.

Ventilation: Handle the material in an efficient fume hood.

Additional Protection: May be corrosive and absorbed through the skin. Wear gloves and full protective clothing.

Physical and Chemical Properties

Physical state and appearance	: Liquid.
Odor	: Not determined.
Taste	: Not available.
Molecular Weight	: 144.97
Color	: Colorless.
pH (1% soln/water)	: Not available.
Boiling Point	: Not available.
Melting Point	: Not available.
Critical Temperature	: Not available.
Specific Gravity	: Not available.
Vapor Pressure	: Not applicable.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Ionicity (in Water)	: Not available.
Dispersion Properties	: Not available.
Solubility	: Soluble in water.

Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions to

avoid: None.

Incompatibility with various substances: Strong bases and active metals.

Materials to avoid: Not available.

Special Remarks on Reactivity:

Not available.

Special Remarks on Corrosivity:

Not available.

Hazardous decomposition

products: Selenium oxide.

Toxicological Information

Information on toxicological effects:

Acute toxicity:

- Inhalation: Based on available data, the classification criteria are not met.

- Dermal: Based on available data, the classification criteria are not met.

- Ingestion: Based on available data, the classification criteria are not met. Irritation: Based on available data, the classification criteria are not met.

Corrosion: Based on available data, the classification criteria are not met. Sensitization: Based on available data, the classification criteria are not met. Mutagenicity: Mutagen.

Carcinogenicity: Based on available data, the classification criteria are not met.

Toxic for reproduction: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Ecological Information

Toxicity information: Inorganic selenium is toxic for aquatic organisms. Must be <0.05 mg/l in drinking water 40CFR141.51

BOD5 and COD: Not available.

Persistence - degradability: Not available.

Bioaccumulative potential: Not established.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Results of PBT and vPvB assessment: Not available.

Environmental precautions: Not available.

Disposal Considerations

Neutralize the acid with lime or sodium bicarbonate. Commercial kits are available for cleaning up acid spills.
 Disposal: Dispose of according to local, state and federal regulations

Transformation Information

Land transport (ADR-RID)

Proper shipping name : Selenic acid

UN N° 1905

ADR - Class 8

Sea transport (IMDG)

[English only]

Proper shipping

name : Selenic acid

UN N° 1905

IMO-IMDG - Class or division 8

IMO-IMDG - Packing group I

Air transport (ICAO-IATA) [English only]

Proper shipping

name : Selenic acid UN N° 1905

IATA - Class or division 8

IATA - Packing group I

Other Regulatory Information

TSCA: Listed in the TSCA inventory.

SARA (Title 313): Title compound: See category code N725 for reporting.

Second Ingredient: not listed.

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

 **makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly,  will not be responsible for damages resulting from use of or reliance upon this information.**