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MATERIAL SAFETY DATA SHEET

Telluric Acid

MSDS Number : 008

Effective Date : 01/20/09

I. Product Identification

Trade Name : Telluric Acid
 Synonyms : Orthotelluric acid, Tellurate, Telluric (VI) acid, Tellurium Hydroxide
 Chemical Formula : H_6TeO_6
 Molecular Weight : 229.64
 Manufacturer : Pacific Rare Specialty Metals And Chemicals, Inc. (PRSMCI)
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 Rosario, Cavite, Philippines, 4106
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II. Composition / Information on Components

Telluric Acid (CAS# 7803 - 68 - 1)
Identification number:
 EINECS Number: 232 - 267 - 6

III. Hazard Identification

Hazard Description: T Toxic
 Information pertaining to particular dangers for man and environment:
 R 25 Toxic if swallowed.
 R 34 causes burns.
 Classification system:
 HMIS ratings (scale 0 - 4)
 (Hazardous Materials Identification System)
 Health (acute effects) = 2
 Flammability = 0
 Reactivity = 1

IV. First - Aid Measures

- General Information:** Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- Inhalation :** Seek immediate medical advice.
- Ingestion :** If swallowed, wash out mouth with water provided person is conscious. Call a physician.
- Skin Contact :** In case of contact, immediately wash skin with soap and copious amounts of water
- Eye Contact :** Rinse opened eye for several minutes under running water. Then consult a doctor.

V. Fire Fighting Measures

- Fire Extinguishing Media :** Noncombustible. Use extinguishing media appropriate to surrounding fire conditions
- Special Information :** In the event of fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- Special Risks :** Emits metal oxide fumes under fire condition
- Protective Equipment :** Wear self-contained respirator.
Wear fully protective impervious suit.

VI. Accidental Release Measures**Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.

Measures for environmental protection:

Do not allow material to be released to the environment without proper government permits.

Measures for cleaning/collecting:

Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

VII. Handling and Storage

- Handling :** Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
- Storage :** Store in a cool, dry place. Keep containers tightly closed. Do not store together with acids.

VIII. Exposure Controls / Personal Protection

- Exposure Limits :** ACGIH TLV : 0.1mg/m³
- General Hygiene Measures :** Wash thoroughly after handling
- Personal Protective Equipment :** Wear appropriate government approved respirator, chemical gloves, safety glasses, tightly sealed goggles, full face protection and protective work clothing.

IX. Physical and Chemical Properties

- Form : Crystalline
- Color : White
- Odor : Not determined
- Solubility : 0.1 g/ml H₂O clear
- Melting Point/Melting range : 136° C

Boiling Point/Boiling range : 160° C
 Density (at 20° C) : 3.071 g/cm³

X. Stability and Reactivity

Dangerous reactions : No dangerous reactions known
Incompatibilities : Acids
Dangerous Products of Decomposition: Metal Oxide fume

XI. Toxicological Information

Acute Toxicity : LD/LC50 values that are relevant for classification:
 Oral: LDLo: 56 mg/kg (rbt)

Signs and Symptoms of Exposure : Chemical, physical and toxicological properties have not been thoroughly investigated.

Route of Exposure :

Skin Contact : Corrosive effect on skin and mucous membranes. Irritant to skin and mucous membrane.

Eye Contact : Strong corrosive effect. Irritating effect.

Multiple Routes : May be harmful by inhalation, ingestion, or skin absorption.

Subacute to chronic toxicity :
 Tellurium is converted in the body to dimethyl telluride which imparts a garlic-like odor to the breath and sweat. Heavy exposure may result in headache, drowsiness, metallic taste, loss of appetite, nausea, tremors, convulsions, and respiratory arrest. Reproductive effects in laboratory animals have been reported.

Subacute to chronic toxicity :
 Corrosive materials are acutely destructive to the respiratory tract, eyes, skin and digestive tract. Eye contact may result in permanent damage and complete vision loss. Inhalation may result in respiratory effects such as inflammation, edema, and chemical pneumonitis. May cause Coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Ingestion may cause damage to the mouth, throat and esophagus. May cause skin burns or irritation depending on the severity of the exposure.

Additional toxicological information:
 Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. The acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

XII. Ecological Information

Do not allow material to be released to the environment without proper governmental permits.

XIII. Disposal Considerations

The material should be dissolved in: 1) water, 2) acid solution, or 3) oxidized to a water-soluble state. Precipitate the material as the sulfide, adjusting the pH of the solution to 7 to complete precipitation. Filter the insolubles and dispose of them in a hazardous waste site. Destroy any excess sulfide with sodium hypochlorite. Neutralize the solution before flushing down the drain. Observe all Local, State and Federal waste environmental regulations.

XIV. Transport Information

DOT regulations :	
Hazard Class	: 8
Identification number	: UN 2923
Packing group	: II
Description of goods	: Corrosive solid, toxic, n.o.s., telluric acid
Land transport ADR / RID (cross-border):	
ADR/RID class	: 8 Corrosive substances
Item	: 75b
Danger code (Kemler)	: 86
UN Number	: 2923
Description of goods	: Corrosive solid, toxic, n.o.s., telluric acid
Maritime transport IMDG:	
IMDG Class	: 8
UN Number	: 2923
Packaging group	: II
Proper shipping name	: Corrosive solid, toxic, n.o.s., telluric acid
Air transport ICAO-TI and IATA-DGR:	
ICAO / IATA Class	: 8
UN / ID Number	: 2923
Packaging group	: II
Proper shipping name	: Corrosive solid, toxic, n.o.s., telluric acid

XV. Regulatory Information

CLASSIFICATION AND LABELLING ACCORDING TO EU DIRECTIVES

Indication of Danger (Xn)	: Harmful
R - Phrases (20)	: Harmful by inhalation
S - Phrases (22 36/37/39 38)	: Do not breathe dust. Wear suitable protective clothing, gloves, and eye / face protection. In case of insufficient ventilation, wear suitable respiratory equipment.

XVI. Other Information

Not Applicable

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