

Niobium Oxalate		Pricing >
Linear Formula	$C_{10}H_5NbO_{20}$ • $xH_2O$	
Pubchem CID	20514713	
MDL Number	MFCD00050743	
EC No.	244-341-5	
IUPAC Name	2-hydroxy-2-oxoacetate; niobium(5+)	
Beilstein/Reaxys No.	N/A	
SMILES	C(=O)(C(=O)[O-])O.C(=O)(C(=O	
Inchl Identifier	InChl=1S/5C2H2O4.Nb/c5*3-1(4)2(5)6;/h5*(H,3,4)(H,5,6);/q;;;;+5/p-5	
Inchi Key	AXIFGFAGYFPNFC-UHFFFAOYSA-I	
Signal Word		Warning
Hazard Statements		H302-H312
Hazard Codes		Xn
Risk Codes		R21/22
Safety Statements		N/A
Transport Information		N/A

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### **SAFETY DATA SHEET**

**Date Accessed:** 05/06/2024 **Date Revised:** 01/15/2022

#### **SECTION 1. IDENTIFICATION**

**Product Identifiers:** All applicable American Elements product codes for CAS #21348-59-4

#### Relevant identified uses of the substance:

Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024

Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

#### SECTION 2. HAZARDS IDENTIFICATION

Statements of Hazard: Irritant

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful

by ingestion, inhalation or skin absorption. Chronic Health Hazard: Not Available

HMIS Rating: H:1 F:0 P:0 NFPA Rating: H:1 F:0 R:0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

#### Pictogram



Signal Word: Warning

Hazard Statement(s):

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

#### Precautionary Statement(s):

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/ attention.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Niobium(V) oxalate

CAS Number: 21348-59-4 EINECS Number: 244-341-5 Molecular Formula: C10H5NbO20

Molecular Weight: 538.04

Content: 95-100%

#### **SECTION 4. FIRST AID MEASURES**

Eye Contact: Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If

irritation persists, seek medical attention.

Skin Contact: Wash skin with soap and water. If irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Seek medical

attention.

Inhalation: Move to a fresh air environment. Contact a

physician if breathing becomes difficult.

#### SECTION 5. FIREFIGHTING MEASURES

Flash Point: 188 °C Explosion Limits: Lower: Not Available Upper: Not Available Autoignition: Not Available

Extinguishing Media: Carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray.

Protective Equipment: Wear self contained respirate

Protective Equipment: Wear self-contained respirator

and fully protective impervious suit.

Specific Hazards: May emit hazardous fumes under

fire conditions.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Keep unprotected persons away.

Environmental Protection: Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

#### **SECTION 7. HANDLING AND STORAGE**

Handling: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

Storage: Store in a tightly closed container in a dry,

well-ventilated place.
Sensitivities: Not Available
Storage Temperature: 15-30 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash facility in your vicinity.

Skin: Wear impervious gloves and protective clothing. Respiratory: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder Odor: Not Available

Melting Point: Not Available Boiling Point: Not Available pH Value: Not Available Density: Not Available

Refractive Index, n20D: Not Available

Viscosity: Not Available

Solubility in Water: Not Available Vapor Pressure: Not Available Vapor Density(Air=1): Not Available

#### **SECTION 10. STABILITY AND REACTIVITY**

Stability: Stable under normal temperatures and

pressures.

Incompatibility: Strong oxidizing agents.

Conditions to Avoid: Heat, Flame, Sparks, Other

ignition sources

Hazardous Decomposition Products: Carbon oxides,

Niobium oxides

# SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference: Not Available

Target Organs: Not Available Toxicity Data: Not Available

Skin corrosion/irritation: Not Available Serious eye damage/irritation: Not Available

Carcinogenicity: Not Available

#### SECTION 12. ECOLOGICAL INFORMATION

Toxicity: Not Available

Persistence and degradability: Not Available Bioaccumulative potential: Not Available

Mobility in soil: Not Available

PBT and vPvB assessment: Not Available Other adverse effects: Not Available

## SECTION 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

# SECTION 14. EXPOSURE CONTROLS/PERSONAL PROTECTION

DOT: Not Regulated IATA: Not Regulated IMDG:Not Regulated

# **SECTION 15. REGULATORY INFORMATION**

**United States:** 

Toxic Substance Control Act (TSCA): Listed Superfund Amendments and Reauthorization Act

(SARA 302): Not listed

Superfund Amendments and Reauthorization Act

(SARA 311/312): Not listed

Superfund Amendments and Reauthorization Act

(SARA 313): Not listed European Union:

European Inventory of Existing Chemical Substances

(EINECS): No. 244-341-5

Hazard Codes: Xi Risk Statements: 21/22 Safety Statements: 24/25

Canada

Canadian Domestic Substances List (DSL): Not listed

Canadian Non-Domestic Substances List (NDSL): Listed

**16. OTHER INFORMATION** 

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.