

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Name:** Rhodium(II) Acetate Dimer Dihydrate

**Product Number:** All applicable American Elements product codes, e.g. RH2-AC-018-C.2HYD

**CAS #:** 29998-99-0

**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:**

+1 800-424-9300

## SECTION 2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation

Serious Eye Damage/Eye Irritation Category 2

Label Elements



Signal Word

Warning

Hazard Statements

Causes skin irritation

Causes serious eye irritation

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse  
Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)

None identified

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## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component CAS-No Weight %

Rhodium (II) acetate dimer 29998-99-0 100

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

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms/effects No data available.

Notes to Physician Treat symptomatically

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## **SECTION 5. FIREFIGHTING MEASURES**

Suitable Extinguishing Media Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. chemical foam.

Unsuitable Extinguishing Media No data available

Flash Point No data available

Method - No data available

Autoignition Temperature No data available

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No data available

Sensitivity to Static Discharge No data available

Specific Hazards Arising from the Chemical

Explosive properties.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear.

NFPA

Health

2

Flammability

Instability

Physical hazards  
N/A

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.  
Environmental Precautions See Section 12 for additional ecological information.  
Methods for Containment and Clean Up

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## SECTION 7. HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.  
Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Component ACGIH TLV OSHA PEL NIOSH IDLH

Rhodium (II) acetate dimer TWA: 1 mg/m<sup>3</sup> (Vacated) TWA: 0.1 mg/m<sup>3</sup> IDLH: 100 mg/m<sup>3</sup>  
TWA: 0.1 mg/m<sup>3</sup>

Component Quebec Mexico OEL (TWA) Ontario TWAEV

Rhodium (II) acetate dimer TWA: 0.1 mg/m<sup>3</sup> TWA: 1 mg/m<sup>3</sup>

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Powder Solid  
Appearance Dark green  
Odor No data available  
Odor Threshold No data available  
pH No data available  
Melting Point/Range No data available  
Boiling Point/Range No data available - 90 - 194  
Flash Point No data available  
Evaporation Rate No data available  
Flammability (solid,gas) No data available  
Flammability or explosive limits  
Upper No data available  
Lower No data available  
Vapor Pressure No data available  
Vapor Density 15.24  
Relative Density .888  
Solubility No data available  
Partition coefficient; n-octanol/water No data available  
Autoignition Temperature No data available  
Decomposition Temperature No data available  
Viscosity No data available  
Molecular Formula C8 H16 O10 Rh2  
Molecular Weight 478.02

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## SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard None known, based on information available  
Stability Stable under normal conditions.  
Conditions to Avoid Incompatible products.  
Incompatible Materials Strong oxidizing agents  
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)  
Hazardous Polymerization No data available.  
Hazardous Reactions None under normal processing.

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## SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity  
Product Information No acute toxicity information is available for this product  
Component Information  
Toxicologically Synergistic  
Products  
No data available  
Delayed and immediate effects as well as chronic effects from short and long-term exposure  
Irritation No data available  
Sensitization No data available  
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.  
Component CAS-No IARC NTP ACGIH OSHA Mexico  
Rhodium (II) acetate  
dimer

29998-99-0 Not listed Not listed Not listed Not listed Not listed  
Mutagenic Effects No data available  
Reproductive Effects No data available.  
Developmental Effects No data available.  
Teratogenicity No data available.  
STOT - single exposure None known  
STOT - repeated exposure None known  
Aspiration hazard No data available  
Symptoms / effects, both acute and delayed  
No data available  
Endocrine Disruptor Information No data available  
Other Adverse Effects The toxicological properties have not been fully investigated.

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## SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity  
Do not empty into drains.  
Persistence and Degradability No data available  
Bioaccumulation/ Accumulation No data available.  
Mobility No data available.

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## SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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## SECTION 14. TRANSPORT INFORMATION

DOT Not regulated  
TDG Not regulated  
IATA Not regulated  
IMDG/IMO Not regulated

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## SECTION 15. REGULATORY INFORMATION

International Inventories  
Component TSCA DSL NDSL EINECS ELINCS NLP PICCS ENCS AICS IECSC KECL  
Rhodium (II) acetate dimer - - - - X - X - -  
Legend:  
X - Listed  
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.  
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.  
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance  
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.  
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule  
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.  
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base  
Production and Site Reports (40 CFR 710(B)).  
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.  
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants  
that comprises one of the eligibility criteria for the exemption rule.  
U.S. Federal Regulations  
TSCA 12(b) N/A  
SARA 311/312 Hazardous Categorization  
Acute Health Hazard  
Yes  
Chronic Health Hazard No  
Fire Hazard No  
Sudden Release of Pressure Hazard No  
Reactive Hazard No  
Clean Water Act N/A  
Clean Air Act N/A  
OSHA Occupational Safety and Health Administration  
N/A  
CERCLA  
N/A  
California Proposition 65 This product does not contain any Proposition 65 chemicals  
State Right-to-Know N/A  
U.S. Department of Transportation  
Reportable Quantity (RQ): N  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N  
U.S. Department of Homeland Security  
This product does not contain any DHS chemicals.  
Other International Regulations  
Mexico - Grade No data available  
Canada  
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and  
the MSDS contains all the information required by the CPR  
WHMIS Hazard Class D2B Toxic materials

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## SECTION 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.

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