

# SAFETY DATA SHEET

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### **SECTION 1. IDENTIFICATION**

Product Identifier: (2N5) 99.5% Zinc Citrate Dihydrate

Product Code: ZN-CAT-025

CAS Number: 5990-32-9

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

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#### **SECTION 2. HAZARDS IDENTIFICATION**

CLP Classification - Regulation (EC) No 1272/2008 Health hazards Based on available data, the classification criteria are not met Physical hazards Based on available data, the classification criteria are not met Environmental hazards Based on available data, the classification criteria are not met

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

Component / CAS-No / Weight % Zinc citrate / 5990-32-9 / <=100

# **SECTION 4. FIRST AID MEASURES**

Description of first aid measures Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur. Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. Self-Protection of the First Aider No special precautions required. Most important symptoms and effects, both acute and delayed None reasonably foreseeable Notes to Physician Treat symptomatically.

# **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Extinguishing media which must not be used for safety reasons No information available. Special hazards arising from the substance or mixture Thermal decomposition can lead to release of irritating gases and vapors. Hazardous Combustion Products None under normal use conditions. Advice for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Reference to other sections

Refer to protective measures listed in Sections 8 and 13

# SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Use in laboratories

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** Exposure limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies **Biological limit values** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies Monitoring methods BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust Derived No Effect Level (DNEL) No information available Predicted No Effect Concentration (PNEC) No information available. Exposure controls **Engineering Measures** None under normal use conditions. Personal protective equipment Eye Protection Wear safety glasses with side shields (or goggles) (European standard - EN 166) Hand Protection Protective gloves Skin and body protection Long sleeved clothing Inspect gloves before use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination. Respiratory Protection No protective equipment is needed under normal use conditions. Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particle filter 2 Small scale/Laboratory use Maintain adequate ventilation

Environmental exposure controls No information available.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid Appearance White **Odor Odorless** Odor Threshold No data available Melting Point/Range No data available Softening Point No data available Boiling Point/Range No information available Flammability (liquid) Not applicable Solid Flammability (solid,gas) No information available Explosion Limits No data available Flash Point No information available Method - No information available Autoignition Temperature No data available Decomposition Temperature No data available pH No information available Viscosity Not applicable Solid Water Solubility No information available Solubility in other solvents No information available Partition Coefficient (n-octanol/water) Vapor Pressure No data available Density / Specific Gravity No data available Bulk Density No data available Vapor Density Not applicable

### SECTION 10. STABILITY AND REACTIVITY

Reactivity None known, based on information available Chemical stability Stable under normal conditions. Possibility of hazardous reactions Hazardous Polymerization No information available. Hazardous Reactions None under normal processing. Conditions to avoid Incompatible products. Excess heat. Incompatible materials None known. Hazardous decomposition products None under normal use conditions

# SECTION 11. TOXICOLOGICAL INFORMATION

Product Information (a) acute toxicity; Oral No data available Dermal No data available Inhalation No data available (b) skin corrosion/irritation; No data available (c) serious eye damage/irritation; No data available (d) respiratory or skin sensitization; Respiratory No data available Skin No data available (e) germ cell mutagenicity; No data available (f) carcinogenicity; No data available There are no known carcinogenic chemicals in this product (g) reproductive toxicity; No data available
(h) STOT-single exposure; No data available
(i) STOT-repeated exposure; No data available
Target Organs No information available. (j) aspiration hazard; Not applicable
Solid
Symptoms / effects,both acute and delayed
No information available.
Information on other hazards
Endocrine Disrupting Properties
Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

# **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Persistence and degradability No information available

Bioaccumulative potential No information available

Mobility in soil No information available

Results of PBT and vPvB assessment

No data available for assessment.

Endocrine disrupting properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

Other adverse effects

Persistent Organic Pollutant This product does not contain any known or suspected substance Ozone Depletion Potential This product does not contain any known or suspected substance

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from Residues/Unused Products

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

Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

European Waste Catalogue (EWC) According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

Other Information Waste codes should be assigned by the user based on the application for which the product was used.

# **SECTION 14. TRANSPORT INFORMATION**

MDG/IMO Not regulated UN number UN proper shipping name Transport hazard class(es) Packing group ADR Not regulated UN number UN proper shipping name Transport hazard class(es) Packing group IATA Not regulated UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards No hazards identified Special precautions for user No special precautions required Maritime transport in bulk according to IMO instruments Not applicable, packaged goods

### **SECTION 15. REGULATORY INFORMATION**

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals Not applicable National Regulations WGK Classification Water endangering class = 3 (self classification) UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002

# **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.