

SAFETY DATA SHEET

Slipkote™ 474 Copper Anti-Seize Aerosol

1. Product And Company Identification

GHS product identifier: Slipkote™ 474 Copper Anti-Seize Aerosol
Other means of identification: Not available.

Relevant identified uses of the substance or mixture and uses advised against:
Anti-seize

Supplier's details: Adaseal International Inc.
5468 Hwy 70 W
Waverly, TN. 37185
Phone: 931-296-2291
Toll Free: 800-521-2521
Fax: 931-296-5239
E-Mail: adaseal2@adaseal.com

Emergency telephone number: CHEMTREC, **24 hours/day, 7 days/week**
U.S.: 1-800-424-9300
International: +1-703-527-3887

SDS Date of Preparation: 05/12/2021

2. Hazards Identification

GHS Classification:

| Physical: | Health: |
|--|---------------|
| Flammable Aerosol Category 1 Gases Under Pressure: Compressed Gas | Non-Hazardous |

GHS Label Elements:



Danger!

| Statements of Hazard | Precautionary phrases |
|---|---|
| Extremely flammable aerosol. Contains gas under pressure; may explode if heated. | Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized Container. Do not pierce or burn, even after use. Protect from sunlight. Store in a well-ventilated place. |

3. Composition/Information on Ingredients

| Component | CAS No. | Amount |
|---------------------|------------|--------|
| 1,1-Difluoroethane | 75-37-6 | 1-5% |
| Copper | 7440-50-8 | 1-5% |
| Crystalline Silica* | 14808-60-7 | 0.1-1% |

* The Crystalline in this product is chemically bound and no exposure will occur with normal use.

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The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation: If symptoms of exposure develop, remove to fresh air. Seek medical attention if breathing problem or irritation persists.

Skin Contact: Wash exposed skin with soap and water for several minutes. If skin irritation develops, seek medical attention.

Eye Contact: 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 or attention.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Most Important Symptoms: May cause mild irritation to eye and skin.

Indication of Immediate Medical Attention/Special Treatment: None known.

5. Firefighting Measures

Suitable (and Unsuitable) Extinguishing Media: In case of fire, use foam, dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical: Extremely flammable aerosol. Contents under pressure. Burning may produce metal oxides and carbon oxides. Exposure of containers to heat and flames can cause them to rupture often with violent force.

Special Fire Fighting Procedures: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting cans.

6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Eliminate all sources of ignition. Ventilate area with explosion proof equipment. Wear appropriate protective clothing and equipment.

Methods and Materials for Containment and Clean-Up: Place leaking can in a pail in a well-ventilated area until pressure has dissipated. Collect residual liquid using inert absorbents and place into a suitable container for disposal.

Environmental Precautions: Prevent release to the environment. Report release as required by local and national regulations.

7. Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes and skin. Avoid breathing vapors or gas. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Contents under pressure, do not puncture or incinerate containers.

Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, well-ventilated area, away from strong oxidizers and other incompatible materials. Do not store in direct sunlight or above 120°F.

U.F.C. (NFPA 30B) Aerosol Protection Level 3

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8. Exposure Controls / Personal Protection

Exposure Guidelines:

| CHEMICAL | EXPOSURE LIMIT |
|-------------------------|--|
| 1,1-Difluoroethane | 1000 ppm TWA AIHA WEELs |
| Copper (as copper dust) | 1 mg/m ³ TWA ACGIH TLV 1 mg/m ³ TWA OSHA PEL |
| Copper (as copper fume) | 0.2 mg/m ³ TWA ACGIH TLV 0.1 mg/m ³ TWA OSHA PEL |
| Crystalline Silica* | 0.05 mg/m ³ TWA OSHA PEL respirable 0.025 mg/m ³ TWA ACGIH TLV respirable |

* The Crystalline in this product is chemically bound and no exposure will occur with normal use.

Appropriate Engineering Controls: General ventilation should be adequate for normal use. For operations where the exposure limits may be exceeded, forced ventilation such as local exhaust may be needed to maintain exposures below applicable limits.

Personal Protective Equipment

Respiratory Protection: None under normal use conditions. For operations where the exposure limits may be exceeded, a NIOSH approved supplied air respirators recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134; all applicable laws and regulations; and good industrial hygiene practice.

Gloves: Impervious gloves recommended to avoid skin contact.

Eye Protection: Safety glasses are recommended if eye contact is possible.

Other Protective Equipment/Clothing: None required.

9. Physical and Chemical Properties

Appearance and Odor: Copper colored semi-solid with mild odor.

| | |
|---|---|
| Physical State: Thick semi-solid liquid under pressure | Odor Threshold: Not determined |
| pH: Not determined | Specific Gravity: 1.32(Liquid component) |
| Initial Boiling Point/Range: Not determined | Vapor Pressure: Not determined |
| Melting/Freezing Point: Not determined | Vapor Density: (Air = 1) Not determined |
| Solubility in Water: Insoluble | Percent Volatile: Not determined |
| Viscosity: Not determined | Evaporation Rate: (n-butyl acetate = 1.0): Not determined |
| Decomposition Temperature: Not available | VOC Content: Not determined |
| Coefficient Of Water/Oil Distribution: Not determined | Autoignition Temp: Not determined |
| Flash Point: 216 °C (420 °F) COC (Liquid component) | Flame extension: Not determined |
| Flammability Limits: LEL: 3.7% (1,1-Difluoroethane) UEL: 18% (1,1-Difluoroethane) | Flammability (solid, gas): Extremely flammable aerosol. |

10. Stability and Reactivity

Reactivity: Not normally reactive

Chemical Stability: Stable under normal storage and handling conditions

Possibility of Hazardous Reactions: None expected.

Conditions to Avoid: Keep away from excessive heat, and open flames. Containers may rupture at temperatures

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> 120°F (48.8°C).

Incompatible Materials: Strong oxidizing agents, strong bases, and strong acids.

Hazardous Decomposition Products: Burning may produce silicon oxides; carbon oxides.

11. Toxicological Information

Potential Health Effects:

Acute Hazards:

Inhalation: May cause mild irritation.

Skin Contact: May cause mild irritation.

Eye Contact: May cause mild irritation.

Ingestion: Swallowing may cause gastrointestinal disturbances.

Chronic Effects: None expected. Excessive inhalation of respirable crystalline silica dust may cause may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. However, the crystalline silica in this product is chemically bound and no inhalation exposure will occur with normal use.

Carcinogenicity Listing: Crystalline silica is listed by IARC as "Carcinogenic to Humans: (Group 1) and as "Known to Be a Human Carcinogen" by NTP. Crystalline silica is an OSHA listed carcinogen. However, the crystalline silica in this product is chemically bound and no exposure will occur with normal use. None of the other components listed is a carcinogen or potential carcinogen by IARC, NTP, ACGIH or OSHA

Numerical Measures of Toxicity:

Product ATE: LD50 Oral >5000 mg/kg

1,1-Difluoroethane: LC50 Inhalation Rat: 437,500ppm/4h

Copper: LD50 Oral Rat: 300-500 mg/kg

Crystalline Silica: LD50 Oral Rat: >22,500 mg/kg

12. Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

1,1-Difluoroethane: LC50 Fish 719.61 mg/L/ 96hr (Calculated)

Copper: LC50 Daphnia magna 31.8 ug/l/ 48 hr.

Crystalline Silica: LC50 Carp >10,000 mg/L/ 72 hr.

Persistence and Degradability: No data available for product.

Bio accumulative Potential: No data available for product.

Mobility in Soil: No data available for product.

Other Adverse Effects: No data available

13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations. Offer empty containers for recycling.

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14. Transport Information

DOT Hazardous Materials Description: UN1950, Aerosols, 2.1 LTD QTY

IMDG Dangerous Goods Description: UN1950, Aerosols 2.1 LTD QTY

15. Regulatory Information

United States:

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA Section 103 This product has a Reportable Quantity (RQ) of 100,000 lbs. based on the RQ for Copper of 5,000 lbs. present at 5% maximum. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Classified under OSHA Hazcom 2012 GHS as per Section 2 of this SDS.

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372):

| | | |
|--------|----------------|---------|
| Copper | CAS# 7440-50-8 | at 1-5% |
|--------|----------------|---------|

California Proposition 65:

WARNING: This product can expose you to chemicals including Crystalline Silica which is known to the State of California to cause cancer.

16. Other Information

REVISION DATE: 05/12/2021

REVISION SUMMARY: New SDS

DATE OF PREVIOUS REVISION: N/A

DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist