Safety Data Sheet



Revision Number: 004.4

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type: Restriction of Use: Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

BONDERITE M-CR 1132 AERO Chromating Products for Metals None identified

IDH number: 1445846 Item number: 1445856 Region: United States Contact information: Telephone: +1 (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

| EMERGENCY OVERVIEW | | |
|--------------------|--------------------------------------|--|
| DANGER: | MAY CAUSE AN ALLERGIC SKIN REACTION. | |
| | MAY CAUSE CANCER. | |

| HAZARD CLASS | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN SENSITIZATION | 1 |
| CARCINOGENICITY | 1B |



Precautionary Statements

| Prevention: | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist, or spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. |
|-------------|--|
| Response: | IF ON SKIN: Wash with plenty of water. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. |
| Storage: | Store locked up. |
| Disposal: | Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations. |

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s) | CAS Number | Percentage* |
|------------------------|------------|-------------|
| Chromium III chromate | 24613-89-6 | 0.1 - 1 |
| Chromium phosphate | 7789-04-0 | 0.1 - 1 |

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

| 4. FIRST AID MEASURES | | |
|------------------------------------|--|--|
| Inhalation: | If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist. | |
| Skin contact: | For skin contact, flush with large amounts of water. Seek immediate medical attention. Remove contaminated clothing and footwear. Discard any shoes or clothing items that cannot be decontaminated. | |
| Eye contact: | In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention. | |
| Ingestion: | Get immediate medical attention. DO NOT induce vomiting unless directed to do so by medical personnel. | |
| Symptoms: | See Section 11. | |
| 5. FI | RE FIGHTING MEASURES | |
| Extinguishing media: | Use media appropriate for surrounding material. | |
| Special firefighting procedures: | Wear full protective clothing. Wear self-contained breathing apparatus. | |
| Unusual fire or explosion hazards: | This product is an aqueous mixture which will not burn. | |
| Hazardous combustion products: | Irritating and toxic gases or fumes may be released during a fire. | |

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

| Environmental precautions: | Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. | |
|----------------------------|---|--|
| Clean-up methods: | Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations. | |
| | | |

7. HANDLING AND STORAGE

| Handling: | Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not reuse the empty container. For industrial use only. |
|-----------|--|
| Storage: | For safe storage, store between 40 °F (4.4 °C) and 104 °F (40°C) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Thaw and mix thoroughly if frozen. |

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

| Hazardous Component(s) | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|------------------------|---|--|-----------|-------|
| Chromium III chromate | 0.0005 mg/m3 STEL (as Cr(VI)) Inhalable fraction. 0.0005 mg/m3 STEL (as Cr(VI)) Inhalable fraction. 0.0002 mg/m3 TWA (as Cr(VI)) Inhalable fraction. (SKIN) (as Cr(VI)) Inhalable fraction. (Dermal sensitization) (Respiratory sensitization) | 0.005 mg/m3 TWA 0.0025 mg/m3 OSHA_ACT 0.1 mg/m3 Ceiling | None | None |
| Chromium phosphate | 0.003 mg/m3 TWA (as Cr(III)) Inhalable fraction. 0.003 mg/m3 TWA (as Cr(III)) Inhalable fraction. (Respiratory sensitization) (Dermal sensitization) | 1 mg/m3 PEL (as Cr) 0.5 mg/m3 PEL (as Cr) | None | None |
| Engineering controls: | | local and general exhau buildup of any vapors or | | |

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection:

Respiratory protection:

Skin protection:

Wear chemical goggles; face shield (if splashing is possible).

Chemical resistant, impermeable gloves. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Flammability: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature:

Liquid Yellow green Mild Not available. 1.95 - 2.25 Not determined > 100 °C (> 212°F) Not determined 1.00 - 1.01 at 60 °F (15.56 °C) Not determined Not applicable Not applicable Not applicable Not applicable Not applicable Not determined Complete Not available. 0 % (calculated) Not available. Not available.

10. STABILITY AND REACTIVITY

| Stability: | Stable at normal conditions. | |
|--------------------------------------|--|--|
| Hazardous reactions: | Will not occur. | |
| Hazardous decomposition products: | None identified. | |
| Incompatible materials: | Avoid contact with organic materials, oils, greases, and any oxidizable materials. | |
| Reactivity: | Not available. | |
| Conditions to avoid: | Do not allow chemical to dry in the presence of organic materials. | |
| 11. TOXICOLOGICAL INFORMATION | | |
| Relevant routes of exposure: | Skin, Inhalation, Eyes | |

Potential Health Effects/Symptoms

| Inhalation: | This product is irritating to the respiratory system. |
|---------------|--|
| Skin contact: | This product may cause irritation to the skin. Product contains chromium, which may cause an |
| | allergic skin sensitization reaction. Massive overexposures may lead to kidney failure and |
| | death. A component in this product may be absorbed through the skin in harmful amounts. |
| Eye contact: | This product may be severely irritating to the eyes. |
| Ingestion: | Acute ingestion may result in mild gastrointestinal distress. May be harmful if swallowed. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects | |
|------------------------|-----------------|--|--|
| Chromium III chromate | None | Allergen, Irritant, Respiratory | |
| Chromium phosphate | None | Allergen, Irritant, Metabolic, Respiratory | |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|----------------------------------|-----------------|---|
| Chromium III chromate | Known To Be Human Carcinogen. | Group 1 | Yes |
| Chromium phosphate | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information:

Do not empty into drains / surface water / ground water.

13. DISPOSAL CONSIDERATIONS Information provided is for unused product only. Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations. This chemical contains phosphates. This chemical contains heavy metals. Hazardous waste number: This product contains chromium which is a hazardous waste (D007). **14. TRANSPORT INFORMATION** The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration. U.S. Department of Transportation Ground (49 CFR) Proper shipping name: RQ, Environmentally hazardous substance, liquid, n.o.s. Hazard class or division: 9 UN 3082 Identification number: Packing group: Ш DOT Hazardous Substance(s): Chromic acid International Air Transportation (ICAO/IATA) Proper shipping name: RQ, Environmentally hazardous substance, liquid, n.o.s. (Chromium(III)-chromate) Hazard class or division: 9 Identification number: UN 3082 Packing group: Ш Water Transportation (IMO/IMDG) Proper shipping name: RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chromium(III)-chromate) Hazard class or division: ģ Identification number: UN 3082

15. REGULATORY INFORMATION

Chromium(III)-chromate

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United States Regulatory Information

Packing group:

Marine pollutant:

| TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification: | All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. Chromium III chromate (CAS# 24613-89-6). |
|--|---|
| CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313: | None above reporting de minimis. Immediate Health, Delayed Health This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Chromium III chromate (CAS# 24613-89-6). |
| CERCLA Reportable quantity: | Chromic acid (CAS# 7738-94-5) 10 lbs. (4.54 kg) |
| California Proposition 65: | This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. |
| Canada Regulatory Information | |
| CEPA DSL/NDSL Status: | All components are listed on or are exempt from listing on the Canadian Domestic Substances List. |

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Regulatory Affairs

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