



Revision Number: 002.5

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE M-CR 1132 AERO known as ALODINE 1132 TOUCH-N-PREP COATI
Product use: Coating
IDH number: 592939
Region: Canada
Company address: Henkel Canada Corporation
 2515 Meadowpine Boulevard
 Mississauga, Ontario L5N 6C3
Contact information:
 Telephone: 905.814.6511
 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

Physical state: Liquid
Color: Yellow green
Odor: Mild
WHMIS hazard class: D.2.A, D.2.B

WARNING: CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
 CONTAINS MATERIAL WHICH MAY CAUSE CANCER.
 MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

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.

Existing conditions aggravated by exposure: Eye, skin and respiratory disorders.

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous components | CAS NUMBER | % |
|-----------------------|-------------|---------|
| Chromium III chromate | 24613-89-6 | 0.1 - 1 |
| Chromium compound | Proprietary | 0.1 - 1 |

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: | Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. Seek immediate medical attention. 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. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions. |

5. FIRE FIGHTING MEASURES

| | |
|--|---|
| Flash point: | Not applicable |
| Autoignition temperature: | Not available. |
| Flammable/Explosive limits - lower: | Not applicable |
| Flammable/Explosive limits - upper: | Not applicable |
| 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. |
| Sensitivity to Mechanical Impact: | Not available. |
| Sensitivity to static discharge: | Not available. |

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 at or above 40 °F (4.4 °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 contact Henkel Canada Customer Service at 800-263-5043.

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 components | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|-----------------------|--|--|-----------|-------|
| Chromium III chromate | 0.05 mg/m ³ TWA (as Cr) 0.01 mg/m ³ TWA (as Cr) | 0.005 mg/m ³ TWA 0.0025 mg/m ³ OSHA_ACT 1 mg/m ³ PEL (as Cr) 0.1 mg/m ³ Ceiling | None | None |
| Chromium compound | None | 1 mg/m ³ PEL (as Cr) 0.5 mg/m ³ PEL (as Cr) | None | None |

Engineering controls: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Yellow green
Odor: Mild
Odor threshold: Not available.
pH: 2.1 - 2.5
Vapor pressure: Not determined
Boiling point/range: > 100 °C (> 212°F)
Melting point/ range: Not determined
Specific gravity: 1.00 - 1.01 at 60 °F (15.56 °C)
Vapor density: Not determined
Flash point: Not applicable
Flammable/Explosive limits - lower: Not applicable
Flammable/Explosive limits - upper: Not applicable
Autoignition temperature: Not available.
Evaporation rate: Not determined
Solubility in water: Miscible
Partition coefficient (n-octanol/water): Not available.
VOC content: Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Incompatible materials: Avoid contact with organic materials, oils, greases, and any oxidizable materials.

Conditions to avoid: Do not allow chemical to dry in the presence of organic materials.

11. TOXICOLOGICAL INFORMATION

Toxicologically synergistic products: Not available.

Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|----------------|-----------------|--|
| Chromium III chromate | No | Group 1 | No |
| Chromium compound | No | No | No |

| Hazardous components | LD50s and LC50s | Health Effects/Target Organs |
|-----------------------|-----------------|--|
| Chromium III chromate | None | Allergen, Irritant, Respiratory |
| Chromium compound | None | Allergen, Irritant, Metabolic, Respiratory |

12. ECOLOGICAL INFORMATION

Ecological information: Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

14. TRANSPORT INFORMATION

Canada Transportation of Dangerous Goods - Ground

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Chromium(III)-chromate)
Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chromium(III)-chromate)
Hazard class or division: 9
Identification number: UN 3082
Packing group: III
Marine pollutant: Chromium(III)-chromate
Exceptions: Classified per IMDG Amendment 34; Effective Jan 1, 2010.

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New information added in Section(s): 14

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the MSDS contains all the information required by the CPR.

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