1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** BONDERITE M-CR 1132 AERO known as ALODINE 1132 TOUCH-N-PREP COATING  
**ID number:** 1445846  
**Product type:** Chromating Products for Metals  
**Restriction of Use:** None identified  
**Company address:** Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**Issue date:** 11/02/2015

**IDH number:** 1445846

**Product name:** BONDERITE M-CR 1132 AERO known as ALODINE 1132 TOUCH-N-PREP COATING  
**ID number:** 1445846  
**Item number:** 1445856  
**Region:** United States

**Company address:** Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**IDH number:** 1445846

**Contact information:**  
Telephone: (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 | 1A |

**PICTOGRAM(S)**


See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>CAS Number</th>
<th>Percentage*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium III chromate</td>
<td>24613-89-6</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

IDH number: 1445846  
Product name: BONDERITE M-CR 1132 AERO known as ALODINE 1132 TOUCH-N-PREP COATING  
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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. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Symptoms: See Section 11.

5. FIRE 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.

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium III chromate</td>
<td>0.05 mg/m3 TWA (as Cr)</td>
<td>0.005 mg/m3 TWA</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.0025 mg/m3 OSHA_ACT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.1 mg/m3 Ceiling</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 applicable
Evaporation rate: Not determined
Solubility in water: Complete
Partition coefficient (n-octanol/water): Not available.
VOC content: 0 % (calculated)
Viscosity: Not available.
Decomposition temperature: 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.

Eye contact: This product may be severely irritating to the 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

Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen
--- | --- | --- | ---
Chromium III chromate | Known To Be Human Carcinogen | Group 1 | Yes

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. 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

Identification number: UN 3082

Packing group: III

DOT Hazardous Substance(s): Chromic acid

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

IDH number: 1445846  Product name: BONDERITE M-CR 1132 AERO known as ALODINE 1132 TOUCH-N-PREP COATING
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15. REGULATORY INFORMATION

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.

TSCA 12 (b) Export Notification: Chromium III chromate (CAS# 24613-89-6).

CERCLA/SARA Section 302 EHS: None above reporting de minimis

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 313: 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 information added in Section(s): 1,2,4,7,9,10 and 13.

Prepared by: John DiCerbo, Sr. Regulatory Affairs Specialist

Issue date: 11/02/2015

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