# Safety Data Sheet



**Revision Number: 004.5** Issue date: 02/24/2023

# PRODUCT AND COMPANY IDENTIFICATION

**Product name: BONDERITE M-CR 1132 AERO** IDH number: 1445846 Product type/use: **Chromating Products for Metals** Item number: 1445856 Restriction of Use: None identified

Company address:

Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

DANGER:

**United States** Region:

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** MAY CAUSE AN ALLERGIC SKIN REACTION.

MAY CAUSE CANCER.

HAZARD CLASS	HAZARD CATEGORY
SKIN SENSITIZATION	1
CARCINOGENICITY	1B

#### PICTOGRAM(S)



### **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.

Store locked up. Storage:

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
Chromium(VI) oxide	1333-82-0	0.01 - 0.1

<sup>\*</sup> 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. Delayed effects

air. Seek medical attention if symptoms develop or persist. Delayed effects possible after inhalation. Administer oxygen or artificial respiration as needed. Do not use mouth-to-mouth method if victim ingested or inhaled the

substance

Skin contact: Remove contaminated clothing and footwear. Immediately wash skin

thoroughly with soap and water. If symptoms develop and persist, get medical attention. Topical 10 % EDTA ointment can be used to treat chromate scabs and skin ulcers. A 10 % ascorbic acid solution may speed healing if applied

promptly. Larger exposures may need additional treatment.

Launder contaminated clothing before reuse. Discard any shoes or clothing

items that cannot be decontaminated.

Eye contact: Immediately flush affected eye with large amounts of gently flowing water or

0.9% sterile saline solution for at least 15 minutes. Hold eyelid wide open. Get immediate medical attention. Eye flushing should continue during

transportation to a doctor.

**Ingestion:** Get immediate medical attention. Do not induce vomiting. If individual is

conscious, wash out mouth with water. Provide a glass of water to dilute the

material in the stomach.

Symptoms: See Section 11.

### 5. FIRE FIGHTING MEASURES

Extinguishing media: Use media appropriate for surrounding material. Water spray (fog), foam, dry

chemical or carbon dioxide.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: May liberate large quantities of dense, foul-smelling smoke which may contain

unidentified toxic gasses.

Hazardous combustion products: Irritating and toxic gases or fumes may be released during a fire. Chromium

oxide.

## 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: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Avoid breathing vapors or mists of this product. Use only with adequate ventilation. Launder work clothes frequently. Do not store or consume food, drink, or tobacco products in areas where they may become contaminated

with this material. Do not take internally. 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  $\min$  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. 0.003 mg/m3 TWA (as Cr(III)) Inhalable fraction. (Dermal sensitization) (Respiratory sensitization)	0.005 mg/m3 TWA 0.0025 mg/m3 OSHA_ACT 0.1 mg/m3 Ceiling 1 mg/m3 PEL (as Cr) 0.5 mg/m3 PEL (as Cr)	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
Chromium(VI) oxide	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. 0.003 mg/m3 TWA (as Cr(III)) Inhalable fraction. (Respiratory sensitization) (Respiratory sensitization)	0.0025 mg/m3 OSHA_ACT 0.005 mg/m3 TWA 0.5 mg/m3 PEL (as Cr) 0.1 mg/m3 Ceiling 1 mg/m3 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:** Use chemical resistant, impervious gloves and clothing to prevent skin

 $contact. \ Gloves \ should \ be \ tested \ to \ determine \ suitability \ for \ prolonged \ contact.$ 

Use of impervious boots is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:Yellow greenOdor:MildOdor threshold:Not available.pH:1.95 - 2.25

Vapor pressure: 1 - 10 kPa (20 °C (68°F)) Values referring to water10 - 25 kPa (50 °C (122°F))

Values referring to water

Boiling point/range:> 100 °C (> 212°F)Aqueous solutionMelting point/ range:Not applicable, Product is a liquidSpecific gravity:1.00 - 1.01 at 60 °F (15.56 °C)

Vapor density: Not determined Flash point: Not applicable Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not applicable Flammability: 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:

Chromium oxide.

Incompatible materials: This product may react with strong reducing agents. Keep away from organic and combustible

materials. Strong bases. Metals.

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: May be harmful or fatal if inhaled. Nasal itch and soreness, perforation of the nasal septum,

dental erosion, and chronic asthmatic bronchitis may result from repeated exposure.

Skin contact:

A component in this product may be harmful or fatal if absorbed through the skin, especially if

skin is damaged. May cause severe skin irritation. Product contains chromium, which may cause an allergic skin sensitization reaction. Contact with broken skin may lead to formation of

firmly marginated "chrome sores".

**Eye contact:** This product may be severely irritating to the eyes.

**Ingestion:** Harmful or fatal if swallowed. May cause burns of the mouth, throat and stomach. May also

cause gastrointestinal disturbances such as nausea, vomiting, abdominal pain, and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Chromium III chromate	Inhalation LC50 (Rat, 4 h) = 200 mg/m3 Inhalation LC50 (Rat, 4 h) = 99 mg/m3 Inhalation LC50 (Rat, 4 h) = 217 mg/m3 Inhalation LC50 (Rat, 4 h) = 104 mg/m3	Allergen, Irritant, Respiratory	
Chromium phosphate	None	Allergen, Irritant, Metabolic, Respiratory	
Chromium(VI) oxide	Oral LD50 (Rat) = 25 mg/kg Dermal LD50 (Rabbit) = 30 mg/kg Inhalation LC50 (Rat, 4 h) = 167 mg/m3 Inhalation LC50 (Rat, 4 h) = 217 mg/m3 Inhalation LC50 (Rat, 4 h) = 263 mg/m3	Allergen, Blood, Central nervous system, Corrosive, Carcinogen, Developmental, Eyes, Gastrointestinal, Irritant, Kidney, Liver, Mutagen, Reproductive, 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
Chromium(VI) oxide	Known To Be Human Carcinogen.	Group 1	Yes

## 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.

### 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

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 3082Packing group:III

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: III

Water Transportation (IMO/IMDG)

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: III

Marine pollutant: Chromium(III)-chromate

# 15. REGULATORY INFORMATION

**United States Regulatory Information** 

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

Control Act (TSCA) 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: Chromium III chromate (CAS# 24613-89-6) 10 lbs. (4.54 kg)

Chromium phosphate (CAS# 7789-04-0) 10 lbs. (4.54 kg) Chromium(VI) oxide (CAS# 1333-82-0) 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: Product Safety and Regulatory Affairs

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