Safety Data Sheet



Revision Number: 006.1 Issue date: 10/20/2021

PRODUCT AND COMPANY IDENTIFICATION

Product name: **BONDERITE M-CR 1600 AERO known** IDH number: 1006652

as ALODINE 1600

Product type/use: Conversion coating Restriction of Use: None identified

Company address:

One Henkel Way

Henkel Corporation

Rocky Hill, Connecticut 06067

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

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: TOXIC IF SWALLOWED.

HARMFUL IN CONTACT WITH SKIN.

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

MAY CAUSE AN ALLERGIC SKIN REACTION.

FATAL IF INHALED.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED. MAY CAUSE GENETIC DEFECTS.

MAY CAUSE CANCER.

MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	3
ACUTE TOXICITY INHALATION	2
ACUTE TOXICITY DERMAL	4
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
GERM CELL MUTAGENICITY	1B
CARCINOGENICITY	1B
REPRODUCTIVE TOXICITY	1B
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

PICTOGRAM(S)



Precautionary Statements

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. [In case of inadequate ventilation] wear respiratory protection.

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Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. IF

SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash

occurs: Get medical attention. Wash contaminated clothing before reuse.

Storage: Store in a well-ventilated place. Keep container tightly closed. 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 VI compound	10588-01-9	60 - 70

^{*} 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 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.

Notes to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Extinguishing media: 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.

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Hazardous combustion products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of Sodium.

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 personal

protective equipment. Do not allow product to enter sewer or waterways.

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: 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.

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 VI compound	0.0002 mg/m3 TWA (as Cr(VI)) Inhalable fraction. 0.0002 mg/m3 TWA (as Cr(VI)) Inhalable fraction. 0.0005 mg/m3 STEL (as Cr(VI)) Inhalable fraction. (SKIN) (as Cr(VI)) Inhalable fraction. (Respiratory sensitization) (Dermal sensitization)	0.005 mg/m3 TWA 0.0025 mg/m3 OSHA_ACT 0.1 mg/m3 Ceiling	None	None

Provide local and general exhaust ventilation to effectively remove and **Engineering controls:**

prevent buildup of any vapors or mists generated from the handling of this

product.

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or Respiratory protection:

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, impermeable clothing including gloves and either an

apron or body suit 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: Liquid Color: Orange-red Odor: None Odor threshold: Not available. pH: 4.7

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Vapor pressure: Not determined

Boiling point/range: > 100 °C (> 212°F)calculated

Melting point/ range: Not determined Specific gravity: 1.670 - 1.770 Vapor density: Not determined Flash point: Not applicable Flammable/Explosive limits - lower: Not applicable Flammable/Explosive limits - upper: Not applicable Autoignition temperature: Not applicable Not applicable Flammability: **Evaporation rate:** Not determined Solubility in water: Complete Partition coefficient (n-octanol/water): Not determined **VOC** content: Not applicable Viscosity: Not available. **Decomposition temperature:** Not available.

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.

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

Reactivity: Not available.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials.

TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

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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. Mists, vapors or liquid may cause severe irritation or burns. 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 is severely irritating to the eyes and may cause irreversible damage including

burns and blindness.

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 VI compound	Oral LD50 (Rat) = 51.10 mg/kg Oral LD50 (Rat) = 51.10 mg/kg Dermal LD50 (Rabbit) = 1,000 mg/kg Inhalation LC50 (Rat, 4 h) = 99 mg/m3 Inhalation LC50 (Rat, 4 h) = 200 mg/m3 Inhalation LC50 (Rat, 4 h) = 94 mg/m3 Inhalation LC50 (Rat, 4 h) = 99 mg/m3 Inhalation LC50 (Rat, 4 h) = 104 mg/m3 Inhalation LC50 (Rat, 4 h) = 217 mg/m3 Inhalation LC50 (Rat, 4 h) = 217 mg/m3 Inhalation LC50 (Rat, 4 h) = 167 mg/m3 Inhalation LC50 (Rat, 4 h) = 83 mg/m3 Inhalation LC50 (Rat, 4 h) = 99 mg/m3 Inhalation LC50 (Rat, 4 h) = 99 mg/m3 Inhalation LC50 (Rat, 4 h) = 99 mg/m3 Inhalation LC50 (Rat, 4 h) = 104 mg/m3 Inhalation LC50 (Rat, 4 h) = 104 mg/m3 Inhalation LC50 (Rat, 4 h) = 104 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, Vascular

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Chromium VI compound	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.

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: Toxic liquid, inorganic, n.o.s. (Sodium dichromate)

Hazard class or division: 6.1
Identification number: UN 3287
Packing group: III

DOT Hazardous Substance(s): Sodium bichromate

International Air Transportation (ICAO/IATA)

Proper shipping name: Toxic liquid, inorganic, n.o.s. (Sodium dichromate)

Hazard class or division: 6.1
Identification number: UN 3287
Packing group: III

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Water Transportation (IMO/IMDG)

Proper shipping name: TOXIC LIQUID, INORGANIC, N.O.S. (Sodium dichromate)

Hazard class or division: 6.1 Identification number: UN 3287 Packing group: III

Marine pollutant: Sodium dichromate

Additional information: IMDG-Code: Segregation group 1- Acids

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 VI compound (CAS# 10588-01-9).

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 VI compound (CAS# 10588-01-9).

CERCLA Reportable quantity: Chromium VI compound (CAS# 10588-01-9) 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: This Safety Data Sheet contains changes from the previous version in Section(s): 4, 5, 7, 8, 10

Prepared by: Product Safety and Regulatory Affairs

Issue date: 10/20/2021

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