

Revision Number: 005.2

Issue date: 09/11/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

BONDERITE M-CR 1600 AERO known

IDH number:

1006652

Product type: Restriction of Use: as ALODINE 1600 Conversion coating

reision coating

None identified

Region: Contact information: United States

Company address: Henkel Corporation

One Henkel Wav

Rocky Hill, Connecticut 06067

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:

i Kabala

FATAL IF SWALLOWED OR IF INHALED. HARMFUL IN CONTACT WITH SKIN.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.
MAY CAUSE RESPIRATORY IRRITATION.
MAY CAUSE DROWSINESS OR DIZZINESS.

MAY CAUSE CANCER.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	2
ACUTE TOXICITY INHALATION	1
ACUTE TOXICITY DERMAL	_ 4
EYE IRRITATION	2A
SKIN SENSITIZATION	1.
CARCINOGENICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

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 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 eye and face protection. Wear protective gloves and clothing. Use personal protective equipment as required. [In case of inadequate ventilation] wear respiratory protection.

Response:

IF SWALLOWED: Immediately call a physician or poison control center. IF ON SKIN: Wash with plenty of soap and water, IF INHALED: Remove person to fresh air and keep comfortable

for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. IF exposed or concerned: Get medical attention.

IDH number: 1006652

Product name: BONDERITE M-CR 1600 AERO known as ALODINE 1600 Page 1 of 6

Immediately call a poison control center or physician. Rinse mouth. If skin irritation or rash occurs; Get medical attention. If eye irritation persists; Get medical attention. Wash

contaminated clothing before reuse.

Storage: Disposal: Store in a well-ventilated place. Keep container tightly closed. Store locked up. 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*
Sodium bichromate	7789-12-0	60 - 100

^{*} Exact percentage is a 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: Remove contaminated clothing and footwear. For skin contact, flush with large

amounts of water. Seek immediate medical attention. If irritation persists, repeat flushing and get 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: 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.

Notes to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special fireflighting procedures: Wear full protective ctothing. 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: Upon decomposition, this product emils carbon monoxide, carbon dioxide

and/or low molecular weight hydrocarbons.

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

IDH number: 1006652 Product name: BONDERITE M-CR 1600 AERO known as ALODINE 1600 Page 2 of 6

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. Avoid breathing mists or aerosols of this product. Wash thoroughly after handling. For industrial use only. Do not

take internally.

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.

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
Sodium bichromate	0.05 mg/m3 TWA (as Cr)	0.005 mg/m3 TWA 0.0025 mg/m3 OSHA_ACT 1 mg/m3 PEL (as Cr) 0.1 mg/m3 Ceiling	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. Gloves should be tested to

determine suitability for prolonged contact. Use of impervious apron and boots

are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Color:

Liquid Orange-red Odor: None

Odor threshold:

Not available.

Vapor pressure: Boiling point/range: Not determined > 100 °C (> 212°F) calculated

Not determined

Melting point/ range: Specific gravity: Vapor density:

1.670 - 1.770 Not determined

Flash point: Flammable/Explosive limits - lower: Not applicable Not applicable Not applicable

Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate:

Not applicable Not determined Complete Not determined

Solubility in water: Partition coefficient (n-octanol/water): VOC content:

Not applicable Not available. Not available.

Viscosity: Decomposition temperature:

Page 3 of 6

IDH number: 1006652

Product name: BONDERITE M-CR 1600 AERO known as ALODINE 1600

10. STABILITY AND REACTIVITY

Stability:

Stable at normal conditions.

Hazardous reactions:

Will not occur.

Hazardous decomposition products:

incompatible materials:

Upon decomposition, this product emits carbon monoxide, carbon dloxide and/or low molecular weight hydrocarbons.

This product may react with strong acids, bases and oxidizing agents.

Reactivity:

Not available.

Conditions to avoid:

Keep away from heat, ignition sources and incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:

Inhalation of vapors may cause moderate to severe respiratory tract irritation. May be harmful

or fatal if inhaled.

Skin contact:

This product is severely irritating to the skin. Product contains chromium, which may cause an

allergic skin sensitization reaction. Massive overexposures may lead to kidney failure and

death.

Eye contact:

Ingestion:

This product is severely imitating to the eyes.

Ingestion can cause gastroIntestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Sodium bichromate	None	Irritant, Respiratory, Central nervous system, Allergen, Liver, Kidney, Developmental, Reproductive, Corrosive, Blood, Carcinogen, Mutagen, Eyes, Gastrointestinal, Lung, Cardiac

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Sodium bichromate	No No	No	Yes

12. ECOLOGICAL INFORMATION

Ecological information:

IDH number: 1006652

Toxic to aquatic organisms

Product name: BONDERITE M-CR 1600 AERO known as ALODINE 1600

Page 4 of 6

13. DISPOSAL CONSIDERATIONS

information provided is for unused product only.

Recommended method of disposal:

Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number:

This product, if discarded directly, would be a characteristic RCRA corrosive waste (D002). 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:

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

Hazard class or division:

6.1

Identification number:

UN 3287 111

Packing group: **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:

Identification number: Packing group:

UN 3287 111

Water Transportation (IMO/IMDG)

Proper shipping name:

TOXIC LIQUID, INORGANIC, N.O.S. (Sodium dichromate)

Hazard class or division:

6.1 UN 3287

Identification number:

Packing group:

III

Marine pollutant:

Sodium dichromate

Additional information:

IMDG-Code: Segregation group 1- Acids

15. REGULATORY INFORMATION

United States Regulatory Information

9 853

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

TSCA 12 (b) Export Notification:

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

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312:

None above reporting de minimis 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:

Sodium bichromate (CAS# 7789-12-0) 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

IDH number: 1006652

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 Material Safety Data Sheet format.

Product name: BONDERITE M-CR 1600 AERO known as ALODINE 1600 Page 5 of 6

Prepared by:

Mark Mau, Regulatory Affairs Specialist

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Product name: BONDERITE M-CR 1600 AERO known as ALODINE 1600 Page 6 of 6