

**Revision Number: 004.3** 

Issue date: 11/03/2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

BONDERITE M-CR 1500 AERO known

as ALODINE 1500

777781

Product type:

Coating

Restriction of Use:

None identified

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

DANGER:

Region:

IDH number:

**United States** 

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

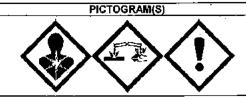
Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	
CONTAINS FLUORIDES. MAY CAUSE DELAYED BURNS (NOT	
IMMEDIATELY PAINFUL OR VISIBLE)! LONG TERM EXPOSURE TO	
FLUORIDES OVER YEARS MAY CAUSE FLUOROSIS!	
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.	
MAY CAUSE AN ALLERGIC SKIN REACTION.	

MAY CAUSE CANCER.

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
CARCINOGENICITY	1A



#### **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. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. Use personal protective equipment as required. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off

Response:

immediately all contaminated clothing. 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. Immediately call a poison control center or physician. 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.

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Classification compiles 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*
Chromic acid	7738-94-5	5 - 10
Ammonium hexafluorozirconate	16919-31-6	1 - 5

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: 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.

Symptoms: See Section 11.

Notes to physician: Treatment of hypocalcemia associated with corrosive fluoride compounds

exposure may be corrected by intravenous calcium gluconate or calcium chloride. Treatment of hypomagnesemia may be corrected by intravenous

magnesium sulfate.

# 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. Block any potential routes

to water systems.

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.

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IDH number: 777781

4.

#### 7. HANDLING AND STORAGE

Handling:

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not take internally. For industrial use only. Clothing or other material wet with this product and allowed to dry may

become flammable.

Storage:

For safe storage, store at or above 40 °F (4.4 °C)

Keep container tightly closed and in a cool, well-ventitated 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
Chromic acid	0.05 mg/m3 TWA (as Cr)	0.005 mg/m3 TWA 0.0025 mg/m3 OSHA_ACT 0.1 mg/m3 Ceiling	None	None
Ammonium hexafluorozirconate	5 mg/m3 TWA (as Zr) 10 mg/m3 STEL (as Zr) 2.5 mg/m3 TWA (as	5 mg/m3 PEL (as Zr) 2.5 mg/m3 PEL (as F) 2.5 mg/m3 TWA Dust.	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:

Color:

Odor: Bland Odor threshold:

pH:

Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density:

Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature:

Evaporation rate: Solubility in water:

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

Viscosity: Decomposition temperature: Liquid Orange-red

Not available. < 2

Not determined > 212 °F (> 100°C) 27 °F (-2.8 °C) 1.03 - 1.06

Not determined > 100 °C (> 212°F) Not applicable Not applicable

Not applicable Not available. Complete Not determined Not applicable Not available. Not available.

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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.

Reactivity:

Not available.

Conditions to avoid:

Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:

Mists, vapors or liquid may cause severe irritation or burns. Prolonged or repeated breathing

may cause ulceration of nasal membranes.

Skin contact:

Product contains chromium, which may cause an allergic skin sensitization reaction. Contact

with broken skin may lead to formation of firmly marginated "chrome sores". Massive overexposures may lead to kidney fallure and death. Following skin exposure to this product, the sensation of irritation or pain may be delayed. A component in this product may be harmful

or fatal if absorbed through the skin, especially if skin is damaged.

Eye contact:

This product is severely irritating to the eyes and may cause irreversible damage including

burns and blindness.

Ingestion:

This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Hazardous Component(s)	LD50s and LC50s	immediate and Delayed Health Effects
Chromic acid	None	Allergen, Blood, Carcinogen, Central nervous system, Corrosive, Developmental, Eyes, Gastrointestinal, Irritant, Kidney, Liver, Mutagen, Reproductive, Respiratory
Ammonium hexafluorozirconate	None	Allergen, Blood, Cardiac, Central nervous system, Corrosive, Gastrointestinal tract, Irritant, Kidney, Lung, Metabolic, Muscle, Teeth, Less weight gain and food intake.

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Chromic acid	No	No	Yes
Ammonium hexafluorozirconate	No	No	No

# 12. ECOLOGICAL INFORMATION

**Ecological Information:** 

Harmful to aquatic organisms.

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#### 13. DISPOSAL CONSIDERATIONS

#### Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal.

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:

Chromic acid solution

Hazard class or division:

8

Identification number:

UN 1755

Packing group:

ıı Chromic acid

DOT Hazardous Substance(s):

International Air Transportation (ICAO/IATA)
Proper shipping name:

Chromic acid solution

Hazard class or division:

Identification number:

UN 1755

Packing group:

II.

Water Transportation (IMO/IMDG)

Proper shipping name:

CHROMIC ACID SOLUTION

Hazard class or division:

0

Identification number:

UN 1755

Packing group: Exceptions:

Classified per IMDG Amendment 34; Effective Jan 1, 2010.

#### 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:

Chromic acid (CAS# 7738-94-5).

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

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). Chromic acid (CAS# 7738-94-5).

**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

IDH number: 777781

CEPA D\$L/ND\$L Status:

All components are listed on or are exempt from listing on the Canadlan Domestic

Substances List.

#### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

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Jennifer Mckay, Regulatory Affairs Specialist

Issue date:

11/03/2014

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