

Revision Number: 005.0

Issue date: 08/15/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

BONDERITE M-CR 1001 AERO known

as ALODINE 1001

Conversion coating

None identified

Product type: Restriction of Use: Company address:

Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

1DH number:

Item number:

594693 **United States**

594693

Region: 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





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. Use personal protective equipment as required.

Response:

IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical

attention. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing

before reuse.

Storage:

Store locked up.

Disposal:

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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*
Chromic acid	7738-94-5	0.1 - 1

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Proprietary

0.1 - 1

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. If inhaled,

immediately remove the affected person to fresh air.

Skin contact:

Remove contaminated clothing and footwear. Rinse with large amounts of running water. GET MEDICAL ATTENTION IMMEDIATELY! If iced 0.13% benzalkonium chloride (Zephiran) solution or 2.5% calcium gluconale gel are available, the rinsing may be limited to 5 minutes, with the soaks or gel applied as soon as the rinsing is stopped. If benzalkonium chloride or calcium gluconate gel is not available, rinsing must continue until medical treatment is

provided.

Eve contact:

In case of contact with the eyes, rinse immediately with plenty of water for 15

minutes, and seek immediate medical attention.

Ingestion:

Get 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 hypocatcemia 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 medla:

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. If evaporated to dryness, solid residue is an exidizing agent and may cause spontaneous

ignition of combustible materials.

Hazardous combustion products:

Irritating and toxic gases or furnes 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 teakage 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:

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Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental

regulations.

HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. For industrial use only. Clothing or other material wet with this product and allowed to dry may become

flammable.

Storage:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Protect from freezing.

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
Zirconium fluoride salt	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. 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

Odor:

None Not available.

Odor threshold:

2-3

рН: Vapor pressure:

Not applicable 212 °F (100°C)

Boiling point/range: Melting point/ range:

Not available. 1.00 - 1.01 Not applicable

Specific gravity: Vapor density: Flash point:

Not applicable Not applicable

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

Not applicable Not applicable Not available.

Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water):

Complete Not available. Not applicable

VOC content:

Not available. Not available.

Viscosity: Decomposition temperature:

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10. STABILITY AND REACTIVITY

Stability:

Stable at normal conditions.

Hazardous reactions:

Will not occur.

Hazardous decomposition

products:

May liberate hydrogen fluoride.

Incompatible materials:

Avoid contact with organic materials, oils, greases, and any oxidizable materials. This product

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may react with strong alkalies.

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 imitation or burns. Prolonged or repeated breathing

may cause ulceration of nasal membranes.

Skin contact:

This product may cause irritation to the skin. Product contains chromium, which may cause an allergic skin sensitization reaction. Liquid or vapor can cause fluoride-type irritation or burns which may not be immediately painful or visible. 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: May be harmful if swallowed.

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Hazardous Component(s)	LD50s and LC50s	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	
Zirconium fluoride salt	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
Zirconium fluoride salt	No	No	No No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

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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 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 substances, liquid, n.o.s.

Hazard class or division:

UN 3082

Identification number:

UN 3082

Packing group:

Chromic acid

DOT Hazardous Substance(s):
International Air Transportation (ICAO/IATA)

Proper shipping name:

Environmentally hazardous substance, liquid, n.o.s.

Hazard class or division:

9

Identification number: Packing group:

UN 3082

Water Transportation (IMO/IMDG)
Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class or division:

9

(dentification number:

UN 3082

Packing group: Additional information:

ill IMDG-Code: Segregation group 1- Acids

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 acld (CAS# 7738-94-5).

CERCLA/SARA Section 302 EHS:

None above reporting de minimis

CERCLA/SARA Section 311/312:

immediate Health, Delayed Health

CERCLA/SARA Section 317/312

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

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: Updated Contact Information in Section 1.

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Prepared by:

John Davies, Manager, Regulatory Affairs

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