

Revision Number: 003.0 Issue date: 12/05/2014

1. PRODUCT AND COMPANY IDENTIFICATION

BONDERITE M-CR 871 AERO known IDH number: Product name: 953761

as ALODINE 871

Product type: Conversion coating Item number: 953761 Restriction of Use: None identified Region: **United States** Contact information:

Company address: Henkel Corporation

Telephone: (860) 571-5100 One Henkel Way

MEDICAL EMERGENCY Phone: Poison Control Center Rocky Hill, Connecticut 06067 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

WARNING: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

PICTOGRAM(S)



Precautionary Statements

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Prevention: Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work

clothing should not be allowed out of the workplace. Wear eye and face protection. Wear

protective gloves.

IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for Response:

several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs; Get medical attention. If eve irritation persists; Get medical

attention. Take off contaminated clothing.

Storage: Not prescribed

Dispose of contents and/or container according to Federal, State/Provincial and local Disposal:

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 trifluoride	7788-97-8	1 - 5
Zirconium compound	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.

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 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.

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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: Upon decomposition, this product emits 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

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: 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.

Storage: For safe storage, store at or below 110 °F (43.3 °C)

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
Chromium trifluoride	2.5 mg/m3 TWA (as F)	1 mg/m3 PEL (as Cr) 2.5 mg/m3 PEL (as F) 0.5 mg/m3 PEL (as Cr) 2.5 mg/m3 TWA Dust.	None	None
Zirconium compound	5 mg/m3 TWA (as Zr) 10 mg/m3 STEL (as Zr) 2.5 mg/m3 TWA (as F)	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.

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: Wear impervious gloves for prolonged contact. 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: Liquid Color: Dark, green Slightly, acidic Odor: Odor threshold: Not available. pH: 3.8 - 4.2 Vapor pressure: Not determined Boiling point/range: > 100 °C (> 212°F)

Melting point/ range: 0 °C (32°F) Approximately 1.00 - 1.05

Specific gravity: Vapor density: Not determined Flash point: > 100 °C (> 212°F) no method

Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not applicable **Evaporation rate:** Not determined Solubility in water: Not available. Partition coefficient (n-octanol/water): Not determined **VOC** content: Not applicable Viscosity: 400.00 mPa.s

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Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

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May liberate hydrogen fluoride.

Incompatible materials: This product may react with strong oxidizing agents.

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: This product is irritating to the respiratory system. Contains fluorides. Exposure to fluorides

over years may cause fluorosis.

Skin contact: Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

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

overexposures may lead to kidney failure and death.

Eye contact: Contact can cause moderate to severe irritation and possible injury to the eyes.

Ingestion: Acute ingestion may result in mild gastrointestinal distress. May be harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Chromium trifluoride	None	Allergen, Blood, Cardiac, Central nervous system, Corrosive, Gastrointestinal tract, Irritant, Kidney, Metabolic, Muscle, Respiratory, Teeth, Less weight gain and food intake.
Zirconium compound	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)
Chromium trifluoride	No	No	No
Zirconium compound	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

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 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:
Hazard class or division:
Identification number:
None
Packing group:
Not regulated
None
None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None

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: None above reporting de minimis

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 trifluoride (CAS# 7788-97-8).

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

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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: John DiCerbo, Sr. Regulatory Affairs Specialist

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