Safety Data Sheet



Revision Number: 003.3

Issue date: 11/01/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type/use: Restriction of Use: Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

BONDERITE M-CR 871 AERO Conversion coating None identified

IDH number: 2675626 Item number: 2675626 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 ENERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW		
DANGER:	CONTAINS FLUORIDES. MAY CAUSE DELAYED BURNS (NOT	
	IMMEDIATELY PAINFUL OR VISIBLE)! LONG TERM EXPOSURE TO	
	FLUORIDES OVER YEARS MAY CAUSE FLUOROSIS!	
	CAUSES SKIN IRRITATION.	
	CAUSES SERIOUS EYE DAMAGE.	

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1

PICTOGRAM(S)	

Precautionary Statements

Prevention:	
	Wash affected area thoroughly after handling. Wear protective gloves, eye protection, and face protection.
Response:	
	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical attention. Take off contaminated clothing.
Storage:	Not prescribed
Disposal:	Not prescribed

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.

COMPOSITION / INFORMATION ON INGREDIENTS 3.

Hazardous Component(s)	CAS Number	Percentage*
Chromium trifluoride	7788-97-8	1 - 4
Ammonium hexafluorozirconate	16919-31-6	0.1 - 0.5

* 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 fre- air. Seek medical attention if symptoms develop or persist.		
Skin contact:	Remove contaminated clothing and footwear. For skin contact, flush with la amounts of water. Seek immediate medical attention. If irritation persists, repeat flushing and get medical attention. Discard any shoes or clothing ite that cannot be decontaminated.		
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for minutes, and seek immediate medical attention.		
Ingestion:	Get immediate medical attention. DO NOT induce vomiting unless directed do so by medical personnel. Give one to two glasses of water or milk. Neve 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: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) 0.003 mg/m3 TWA (as Cr(III)) Inhalable fraction. (Dermal sensitization) (Respiratory sensitization)	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
Ammonium hexafluorozirconate	5 mg/m3 TWA (as Zr) 10 mg/m3 STEL (as Zr)	5 mg/m3 PEL (as Zr)	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:

Eye/face protection:

Skin protection:

vapors, appropriate NIOSH/MSHA respiratory protection must be provided. Wear chemical goggles; face shield (if splashing is possible).

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: Color: Odor: 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: Flammability: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity:

Liquid Dark, green Slightly, acidic Not available. 3.8 - 4.2 Not determined > 100 °C (> 212°F) 0 °C (32°F) Approximately 1.00 - 1.05 Not determined > 100 °C (> 212°F) no method Not available. Not available. Not applicable Not applicable Not determined Not available. Not determined Not applicable 400.00 mPa.s

Decomposition temperature:

Not available.

	10. STABILITY AND REACTIVITY		
Stability:	Stable at normal conditions.		
Hazardous reactions:	Will not occur. Will not occur.		
Hazardous decomposition products:	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.
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)
Chromium trifluoride	No	No	No
Ammonium hexafluorozirconate	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:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	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. None above reporting de minimis
TSCA 12 (b) Export Notification: CERCLA/SARA Section 302 EHS:	None above reporting de minimis.
CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	Immediate Health, Delayed Health 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	
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. 2

Prepared by: Product Safety and Regulatory Affairs

Issue date: 11/01/2019

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