

Safety Data Sheet



Revision Number: 003.3

Issue date: 11/01/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE M-CR 871
Product type/use: Conversion coating
Restriction of Use: None identified
Company address:
 Henkel Corporation
 One Henkel Way
 Rocky Hill, Connecticut 06067

IDH number: Not available.
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 EMERGENCY 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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

IDH number: Not available.

Product name: BONDERITE M-CR 871

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 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.
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/m ³ TWA (as F) 0.003 mg/m ³ TWA (as Cr(III)) Inhalable fraction. (Dermal sensitization) (Respiratory sensitization)	1 mg/m ³ PEL (as Cr) 2.5 mg/m ³ PEL (as F) 0.5 mg/m ³ PEL (as Cr) 2.5 mg/m ³ TWA Dust.	None	None
Ammonium hexafluorozirconate	5 mg/m ³ TWA (as Zr) 10 mg/m ³ STEL (as Zr)	5 mg/m ³ 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.

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: 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
Odor:	Slightly, acidic
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
Specific gravity:	1.00 - 1.05
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
Flammability:	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

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.

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

CEPA DSL/NDL 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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WAREHOUSE TRANSFER

CUST.#: 47650291

BILL TO: HISCO-NEW JERSEY
55 Veronica Ave

SHIP FROM:
HISCO-ATLANTA
1650 HORIZON PARKWAY
SUITE 500
BUFORD, GA 30518-6536

SHIP TO: Mayflower Communications Compa
11 OAK PARK DR STE 200
PO# 2903-089
Bedford, MA 01730-1413

WT #	TAKEN BY	ORDER #
780178-00	pg50	11194302-00do
PLACED BY	PHONE #	
	(781) 359-9500	
ORDER DATE	PAGE	CUSTOMER PO #
06/26/20	1	2903-089

SHIP POINT		INSTRUCTIONS	
SHIP VIA		REQUEST DATE	PICKED
FedX Ground		06/26/20	NET 30
FREIGHT TERMS		FRT ACCOUNT #	
Prepaid & Add			

LINE NO.	PRODUCT AND DESCRIPTION	BIN LOCATION	QUANTITY ORDERED	QUANTITY B.O.	QTY. SHIPPED	QTY. U/M	RECEIVED	NO. CARTONS	AMOUNT (NET)
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1	1446363-30769 COATING PEN BONDERITE M-CR 871 AERO 12/CA Customer Prod: SHLF: 24 months from DOM Brand: Bonderite Lot:PB00298416 DOM:01/07/20	CLW1A	1.00	0.00	1.00	PC			
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Qty:1
Orig Qty:240

Storage:Conditions:Cool, Well-Ventilated
Country of Origin: UNITED STATES
DOE:01/06/22

Certificate of Compliance

Materials are manufactured in accordance with applicable specifications.
When applicable, the original manufacturer's certificates are retained by Hisco.

In lieu of all warranties, express or implied: Materials are guaranteed, provided they have not been damaged nor improperly used. Seller shall not replace material proved to be defective nor be liable for any injury, loss, or inability to use or misuse of the product. User shall determine product suitability prior to use and assumes all risk and liability thereafter.

1	LINES TOTAL	# OF LINES NOT PRINTED	0	QTY. SHIPPED TOTAL	1.00				
PICKED BY	PACKED BY	CHECKD BY	CUBE	WEIGHT	FREIGHT CHARGE				
						NO. OF PKGS	RECEIVED BY	DATE RECEIVED	

Signature:

Date: 06/26/20 09:40

Nelson P. ...
VP Operations