

Revision Number: 004.0

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1. PRODUCT AND COMPANY IDENTIFICATION

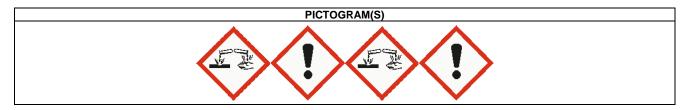
Product name:BONDProduct type/use:ConvertRestriction of Use:None ifCompany address:Henkel CorporationOne Henkel WayRocky Hill, Connecticut 06067

BONDERITE M-CR 871 AERO Conversion coating None identified IDH number:2675626Item number:2675626Region:United StatesContact information:Telephone: +1 (860) 571-5100MEDICAL EMERGENCY Phone: Poison Control Center1-877-671-4608 (toll free) or 1-303-592-1711TRANSPORT EMERGENCY Phone: CHEMTREC1-800-424-9300 (toll free) or 1-703-527-3887Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

| | EMERGENCY OVERVIEW |
|----------------|--|
| DANGER: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. |
| | MAY CAUSE AN ALLERGIC SKIN REACTION. |
| | CAUSES SERIOUS EYE DAMAGE.CAUSES SKIN IRRITATION. |
| | MAY CAUSE AN ALLERGIC SKIN REACTION. |
| | CAUSES SERIOUS EYE DAMAGE. |

| HAZARD CLASS | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN IRRITATION | 2 |
| SERIOUS EYE DAMAGE | 1 |
| SKIN SENSITIZATION | 1 |



Precautionary Statements

| Prevention: | |
|-----------------------|--|
| | Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. 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 or rash occurs: Get medical attention. Take off contaminated clothing. 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 or rash occurs: Get medical attention. Take off contaminated clothing. |
| Storage: Disposal: | Not prescribed |
| | Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations. |
| | 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* |
|------------------------------|------------|-------------|
| 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 |
|---|
| If mist or vapor of this product is inhaled, remove person immediately to frain. Seek medical attention if symptoms develop or persist. If breathing is difficult, give oxygen. Trained personnel should administer 2.5% calcium gluconate through a nebulizer for 20 minutes. |
| Remove contaminated clothing and footwear while rinsing the affected are with large amounts of running water for at least 15 minutes. GET IMMEDI/ MEDICAL ATTENTION. If iced solution of 0.13% aqueous Benzalkonium Chloride (Zephiran) or 2.5% calcium gluconate gel is available, rinsing ma limited to 5 minutes, with the soak solution or gel applied as soon as the rinsing is stopped. Gloves should be worn when applying the gel to prever transfer of HF and secondary burns. If using calcium gluconate gel, it sho be continuously re-applied and massaged into the affected area until pain been relieved for at least 30 minutes. If Benzalkonium Chloride (Zephiran) calcium gluconate gel is not available, rinsing must continue until medical treatment is provided. |
| Immediately flush affected eye with large amounts of gently flowing water 0.9% sterile saline solution for at least 15 minutes. Hold eyelid wide open. Get immediate medical attention. Eye flushing should continue during transportation to a doctor. |
| Get immediate medical attention. Do not induce vomiting. Attempt immediate administration of a fluoride binding substance: milk, chewable calcium carbonate tablets or 4-8 ounces (120-240 ml) of milk of magnesia or a liqu antacid. Avoid large amounts of liquid as it may induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. |
| See Section 11. |
| 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 |
| |

| 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. Hydrogen fluoride.

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) 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:

Respiratory protection:

Eye/face protection:

Skin protection:

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 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: Liquid Dark, green Slightly, acidic Not available. 3.8 - 4.2 1 - 10 kPa (20 °C (68°F)) Values referring to water10 - 25 kPa (50 °C (122°F)) Values referring to water > 100 °C (> 212°F)Aqueous solution 0 °C (32°F) Approximately

| 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: | 1.00 - 1.05 < 1 20 °C > 93 °C (> 199.4 °F) Not available. Not available. Not applicable Not applicable Not determined fully miscible Not available. Not applicable |
|--|--|
| | Not applicable 400.00 mPa.s Not available. |
| Viscosity: | 400.00 mPa.s |

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. Liquid or vapor can cause fluoride-type irritation or burns which may not be immediately painful or visible. Hydrofluoric acid will penetrate the skin and attack underlying tissue and bone. Large burns (over 25 square inches) may also cause hypocalcemia and other systemic effects which may be fatal. |
| Eye contact: Ingestion: | Contact can cause moderate to severe irritation and possible injury to the eyes. Ingestion causes burns of the upper digestive and respiratory tracts. Ingestion of small amounts of this product may result in potentially fatal hypocalcemia and systemic toxicity. Ingestion of large amounts of this product may result in fluoride poisoning including symptoms of calcification of the ligaments and severe bone changes making normal movements painful, mottling of the teeth, pulmonary fibrosis, anemia, anorexia, dental effects, and possibly death. Contains fluorides. Exposure to fluorides over years may cause fluorosis. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects Allergen, Blood, Cardiac, Central nervous system, Corrosive, Gastrointestinal tract, Irritant, Kidney, Metabolic, Muscle, Respiratory, Teeth, Less weight gain and food intake. | |
|------------------------------|-----------------|---|--|
| Chromium trifluoride | None | | |
| 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.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

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: | | |
|---------------------------|--|--|
| Hazard class or division: | | |
| Identification number: | | |
| Packing group: | | |

Not regulated None None None

15. REGULATORY INFORMATION

United States Regulatory Information

| TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification: | All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory. None above reporting de minimis | |
|--|--|--|
| CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313: | None above reporting de minimis. Hydrogen fluoride (CAS# 7664-39-3). 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 Safety Data Sheet format.

| Prepared by: | Regulatory Affairs |
|--------------|--------------------|
| Issue date: | 01/30/2024 |

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