

Revision Number: 003.3 Issue date: 10/26/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE S-FN 870 FUNCTIONAL

PREVENTIVE COATING ACHESON known as COPPER SHIELD 870

Product type: Corrosion Protection Coating for Metals

Restriction of Use: None identified

Company address: Henkel Corporation

One Henkel Way Rocky Hill, Connecticut 06067 **IDH number:** 598881

Region: United States

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGÉNCY 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: FLAMMABLE LIQUID AND VAPOR.

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

CAUSES SKIN IRRITATION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE DROWSINESS OR DIZZINESS.

| HAZARD CLASS | HAZARD CATEGORY |
|--|-----------------|
| FLAMMABLE LIQUID | 3 |
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3 |
| ASPIRATION HAZARD | 1 |

PICTOGRAM(S)



Precautionary Statements

Prevention: Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly

closed. No release into water. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective

gloves, eye protection, and face protection.

Response: IF SWALLOWED: Immediately call a physician or poison control center. If on skin (or hair):

Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do NOT induce vomiting. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off

contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

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Disposal: 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* |
|------------------------|-------------|-------------|
| Petroleum Distillates | Proprietary | 60 - 100 |
| 2-Butoxyethanol | 111-76-2 | 1 - 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 symptoms are experienced, remove source of contamination or move victim

to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: For skin contact flush with large amounts of water. If adverse health effects

develop seek medical attention.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. If

symptoms develop and persist, get medical attention.

Ingestion: Drink 1-2 glasses of water, seek medical advice. DO NOT induce vomiting

unless directed to do so by medical personnel. Give one to two glasses of

water or milk.

Symptoms: See Section 11.

Notes to physician: This material, if aspirated into the lungs, may cause chemical pneumonitis;

treat the affected person appropriately.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: Vapors are heavier than air and may travel to ignition sources and flash back.

Do not cut, weld, solder, drill, grind, or expose containers to heat, flame,

sparks, or other sources of ignition.

Hazardous combustion products: Upon decomposition, this product emits oxides of sulfur, 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. Eliminate ignition sources

including sources of electrical, static or frictional sparks. Ventilated area.

Clean-up methods: Wear appropriate personal protective equipment. Collect spilled material with

an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Dispose of according to Federal, State and local

governmental regulations.

7. HANDLING AND STORAGE

Handling: Keep away from heat, spark and flame. Avoid contact with eyes, skin and

clothing. Avoid breathing vapors or mists of this product. Keep container closed. Provide adequate ventilation. Wash thoroughly after handling. Ground

and bond all equipment as required (when transferring products).

Storage: For safe storage, store between 40 °F (4.4 °C) and 100 °F (37.8 °C)

Store in a cool, dry, well-ventilated area. Store away from strong oxidizers.

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 |
|------------------------|------------|-------------------------------------|-----------|-------------|
| Petroleum Distillates | None | None | None | 196 ppm TWA |
| 2-Butoxyethanol | 20 ppm TWA | 50 ppm (240 mg/m3) PEL (SKIN) | 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. Use of impervious apron and boots

are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:Pale yellowOdor:AromaticOdor threshold:Not available.pH:Not applicableVapor pressure:Not determined

Boiling point/range: > 200 °F (> 93.3 °C)calculated

Melting point/ range: Not determined

Specific gravity: 0.74 - 0.78 at 20 °C (68°F)

Vapor density: Not determined

Flash point: 104 °F (40°C) Tagliabue closed cup

Flammable/Explosive limits - lower: 0.7 % Flammable/Explosive limits - upper: 6.5 %

 Autoignition temperature:
 Not determined

 Flammability:
 Not applicable

 Evaporation rate:
 Not determined

Solubility in water: Slight

Partition coefficient (n-octanol/water):

VOC content:

Viscosity:

Decomposition temperature:

Not determined > 80 %

Not available.

Not available.

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10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

Upon decomposition, this product may yield sulfur dioxide, carbon monoxide, carbon dioxide

and/or low molecular weight hydrocarbons.

Incompatible materials: Strong oxidizing agents.

Reactivity: Not available.

Conditions to avoid: Keep away from heat, spark and flame.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Skin contact:

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Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. This product may cause irritation to the skin. A component in this product may be absorbed

through the skin in harmful amounts.

Eye contact: This product may cause irritation to the eyes.

Ingestion: Ingestion of this product may cause nausea, vomiting and diarrhea. Small amounts of this

product, if aspirated into the lungs, may cause mild to severe pulmonary injury.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|------------------------|--|--|
| Petroleum Distillates | None | Irritant |
| 2-Butoxyethanol | Oral LD50 (Rat) = 560 mg/kg | |
| | Oral LD50 (Mouse) = 1.2 g/kg Oral LD50 (Rabbit) = 0.32 g/kg | Blood, Central nervous system, Irritant, |
| | Oral LD50 (Rat) = 1.48 g/kg | Kidney, Liver |
| | Oral LD50 (Mouse) = 1,519 mg/kg | |
| | Dermal LD50 (Rabbit) = 400 mg/kg | |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|----------------|-----------------|--|
| Petroleum Distillates | No | No | No |
| 2-Butoxyethanol | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information:No data 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: If discarded, this product is considered a RCRA ignitable waste, D001. This

product may contain Barium which is a hazardous waste (D005).

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: Combustible liquid, n.o.s. (Petroleum distillates)

Hazard class or division: Combustible Liquid

Identification number: NA 1993 Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Flammable liquid, n.o.s. (Petroleum distillates)

Hazard class or division: 3
Identification number: UN 1993
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Petroleum distillates)

Hazard class or division: 3
Identification number: UN 1993
Packing group: III

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, Fire

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). 2-Butoxyethanol (CAS# 111-76-2).

California Proposition 65: 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: New Safety Data Sheet format.

Prepared by: Product Safety and Regulatory Affairs

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