

Revision Number: 002.3 Issue date: 06/27/2019

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE S-FN 330 FUNCTIONAL IDH number:

COATING ACHESON known as

**EMRALON330** 

IDH number: 1224866

Product type/use:Dry film lubricantItem number:1224866Restriction of Use:None identifiedRegion:United States

Company address: Contact information:

Henkel Corporation Telephone: +1 (860) 571-5100

One Henkel Way
Rocky Hill, Connecticut 06067
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

1224866

Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: HIGHLY FLAMMABLE LIQUID AND VAPOR.

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

MAY CAUSE DROWSINESS OR DIZZINESS. SUSPECTED OF CAUSING GENETIC DEFECTS.

MAY CAUSE CANCER.

SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

CAUSES DAMAGE TO ORGANS.

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	2
SKIN IRRITATION	2
EYE IRRITATION	2A
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
GERM CELL MUTAGENICITY	2
CARCINOGENICITY	1A
REPRODUCTIVE TOXICITY	2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2
ASPIRATION HAZARD	1

PICTOGRAM(S)



#### **Precautionary Statements**

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Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. 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. Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. In

case of inadequate ventilation wear respiratory 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. If exposed: Call a poison center or

physician. Do NOT induce vomiting. If skin irritation or rash 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.

**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*
n-Butyl alcohol	71-36-3	10 - 30
Ethanol	64-17-5	10 - 30
Toluene	108-88-3	10 - 30
Methoxypropyl acetate 2-	108-65-6	10 - 30
Ethene, tetrafluoro-, homopolymer	9002-84-0	5 - 10
Pentylacetat	628-63-7	1 - 5
Phenol	108-95-2	1 - 5
Xylenes	1330-20-7	1 - 5
Methanol	67-56-1	1 - 5
Ethylbenzene	100-41-4	0.1 - 1
Formaldehyde	50-00-0	0.1 - 1
Methyl isobutyl ketone	108-10-1	0.1 - 1

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

## 4. FIRST AID MEASURES

**Inhalation:** Get medical attention. If symptoms are experienced, remove source of

contamination or move victim to fresh air. If not breathing, give artificial

respiration.

Skin contact: In case of contact, immediately remove contaminated clothing and flush skin

with copious amounts of water. If symptoms develop and persist, 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 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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#### 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide. In case of fire, keep

containers cool with water spray.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

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

Do not pressurize, cut, heat or weld containers. Empty product containers

may contain product residue. Do not reuse empty containers.

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: Eliminate ignition sources including sources of electrical, static or frictional

sparks. Ventilate area. Do not allow product to enter sewer or waterways.

Wear appropriate personal protective equipment.

Clean-up methods: 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:** Provide adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid

breathing vapors or mists of this product. Do not cut or weld on empty drums. Sufficient vapors from residues may be present to cause explosion and serious injury and/or death. 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 90 °F (32.2 °C)

Keep the container tightly closed and in a cool, well-ventilated place. Remove all sources of ignition. Keep away from heat, spark and flame. Store in original container until ready to use. Protect from direct sunlight. Ground and bond metal containers for liquid transfer to avoid static sparks. Keep out of reach of

children and away from food and drink.

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
n-Butyl alcohol	20 ppm TWA	100 ppm (300 mg/m3) PEL	None	None
Ethanol	1,000 ppm STEL	1,000 ppm (1,900 mg/m3) PEL	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
Methoxypropyl acetate 2-	None	None	50 ppm TWA	None
Ethene, tetrafluoro-, homopolymer	None	None	None	10 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.
Pentylacetat	50 ppm TWA 100 ppm STEL	100 ppm (525 mg/m3) PEL	None	None
Phenol	5 ppm TWA (SKIN)	5 ppm (19 mg/m3) PEL (SKIN)	None	None
Xylenes	100 ppm TWA 150 ppm STEL	100 ppm (435 mg/m3) PEL	None	None
Methanol	200 ppm TWA (SKIN) 250 ppm STEL	200 ppm (260 mg/m3) PEL	None	None
Ethylbenzene	20 ppm TWA	100 ppm (435 mg/m3) PEL	None	None
Formaldehyde	0.3 ppm STEL 0.1 ppm TWA (Respiratory sensitization) (Dermal sensitization)	0.5 ppm OSHA_ACT 0.75 ppm TWA 2 ppm STEL	None	None
Methyl isobutyl ketone	20 ppm TWA 75 ppm STEL	100 ppm (410 mg/m3) PEL	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. Prevent electrostatic charge build-up by using common bonding and

grounding techniques.

**Respiratory protection:** If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

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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

Not available.

Physical state: Liquid Color: Blue

Odor: Alcohol, pungent Odor threshold: Not available. Not applicable pH: Vapor pressure: Not available. Boiling point/range: 78 °C (172.4 °F) Melting point/ range: < 0 °C (< 32°F) Specific gravity: 0.97 - 0.99

Flash point: 10 °C (50°F) Closed cup

Flammable/Explosive limits - lower: 1.1 % 36.5 % Flammable/Explosive limits - upper:

Autoignition temperature: >= 272 °C (>= 521.6 °F)

Not applicable Flammability **Evaporation rate:** Not determined Solubility in water: Slightly soluble Partition coefficient (n-octanol/water): Not determined **VOC** content: Not available. Viscosity: 60 - 150 cp **Decomposition temperature:** Not available.

#### STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low

**Hazardous decomposition** 

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Vapor density:

products: molecular weight hydrocarbons.

Incompatible materials: This product may react with 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

Inhalation:

Inhalation of high vapor concentrations may produce respiratory irritation, and may cause central nervous system (CNS) depression. Continued overexposure may result in coma, respiratory arrest, and death. Product contains toluene which is harmful or fatal if inhaled or absorbed through the skin, may cause permanent nervous system damage upon repeated exposure, and has been shown to be a human reproductive hazard. Chronic exposure to toluene may have effects on the central nervous system and these effects may progress to be irreversible. Intentional misuse of toluene has resulted in reproductive effects including

physical and developmental abnormalities.

Skin contact: This product is irritating to the skin. Prolonged or repeated skin contact may cause dermatitis. This product is irritating to the eyes. This product may be severely irritating to the eyes. Eye contact:

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

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
n-Butyl alcohol	Oral LD50 (Rat) = 790 mg/kg Dermal LD50 (Rabbit) = 3,400 mg/kg	Allergen, Central nervous system, Ear, Eyes, Irritant
Ethanol	Oral LD50 (Rat) = 9.9 g/kg Oral LD50 (Rat) = 6.2 g/kg Oral LD50 (Rat) = 17.8 g/kg Oral LD50 (Rat) = 11.5 g/kg Oral LD50 (Mouse) = 3,450 mg/kg Oral LD50 (Rat) = 10.6 g/kg Oral LD50 (Rat) = 7,060 mg/kg	Central nervous system, Irritant
Toluene	Oral LD50 (Rat) = 2.6 g/kg Dermal LD50 (Rabbit) = 12,124 mg/kg	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant
Methoxypropyl acetate 2-	None	Irritant, Central nervous system
Ethene, tetrafluoro-, homopolymer	None	No Target Organs
Pentylacetat	None	Irritant, Central nervous system
Phenol	Oral LD50 (Mouse) = 270 mg/kg Oral LD50 (Rat) = 317 mg/kg Oral LD50 (Rat) = 530 mg/kg Dermal LD50 (Rat) = 669 mg/kg Dermal LD50 (Rabbit) = 850 mg/kg	Blood, Cardiac, Corrosive, Developmental, Eyes, Irritant, Kidney, Liver, Mutagen, Nervous System, Skin, Vascular
Xylenes	Oral LD50 (Rat) = 6,670 mg/kg Oral LD50 (Rat) = 3,523 - 8,600 mg/kg Oral LD50 (Rat) = 4,300 mg/kg Dermal LD50 (Rabbit) = > 43 g/kg	Cardiac, Central nervous system, Irritant, Kidney, Liver
Methanol	Oral LD50 (Rat) = 5,628 mg/kg Oral LD50 (Mouse) = 7,300 mg/kg Oral LD50 (Rabbit) = 14.4 g/kg Dermal LD50 (Rabbit) = 15,800 mg/kg	Eyes, Irritant, Metabolic, Nervous System
Ethylbenzene	Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rabbit) = 17,800 mg/kg	Irritant, Central nervous system
Formaldehyde	Oral LD50 (Rat) = 100 mg/kg Oral LD50 (Mouse) = 42 mg/kg Oral LD50 (Rat) = 2,020 mg/kg Oral LD50 (Rat) = 800 mg/kg	Allergen, Behavioral, Central nervous system, Irritant, Liver, Metabolic, Mutagen, Reproductive, Respiratory, Some evidence of carcinogenicity
Methyl isobutyl ketone	Oral LD50 (Rat) = 2,080 mg/kg Dermal LD50 (Rabbit) = > 16,000 mg/kg	Irritant, Central nervous system

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
n-Butyl alcohol	No	No	No
Ethanol	No	No	No
Toluene	No	No	No
Methoxypropyl acetate 2-	No	No	No
Ethene, tetrafluoro-, homopolymer	No	No	No
Pentylacetat	No	No	No
Phenol	No	No	No
Xylenes	No	No	No
Methanol	No	No	No

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Ethylbenzene	No	Group 2B	No
Formaldehyde	Known To Be Human Carcinogen.	Group 1	Yes
Methyl isobutyl ketone	No	Group 2B	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 contains a component or components identified as hazardous under

40 CFR 261.24. U239: Xylene - mixture of isomers U031 U220

#### 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: Coating solution

Hazard class or division: 3
Identification number: UN 1139
Packing group: II

DOT Hazardous Substance(s): Xylene (mixed), Toluene

International Air Transportation (ICAO/IATA)

Proper shipping name: Coating solution

Hazard class or division: 3
Identification number: UN 1139
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: COATING SOLUTION

Hazard class or division: 3

Identification number: UN 1139
Packing group: II

# 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: Phenol (CAS# 108-95-2).

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire CERCLA/SARA Section 313: This product contains the following toxic

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). n-Butyl alcohol (CAS# 71-36-3). Toluene (CAS# 108-88-3). Phenol (CAS# 108-95-2). Xylenes (CAS# 1330-20-7). Methanol (CAS# 67-56-1). Ethylbenzene (CAS# 100-41-

4). Formaldehyde (CAS# 50-00-0). Methyl isobutyl ketone (CAS# 108-10-1).

CERCLA Reportable quantity: n-Butyl alcohol (CAS# 71-36-3) 5,000 lbs. (2,270 kg)

Ethanol (CAS# 64-17-5) 100 lbs. (45.4 kg) Toluene (CAS# 108-88-3) 1,000 lbs. (454 kg) Phenol (CAS# 108-95-2) 1,000 lbs. (454 kg) Xylenes (CAS# 1330-20-7) 100 lbs. (45.4 kg)

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California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This

product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

**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: This Safety Data Sheet contains changes from the previous version in Section(s): 3 & 15

Prepared by: Product Safety and Regulatory Affairs

**Issue date:** 06/27/2019

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