

Revision Number: 006.0

Issue date: 09/26/2019

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

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

LOCTITE ECCOBOND FP4323 known as 10 CC FP4323 -40CD Encapsulant None identified

IDH number:

467120

Item number: FP4323-V20 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

Contains one or more components for which a Toxic Substances Control Act (TSCA) Low Volume Exemption (LVE) applies. See Section 15.

## 2. HAZARDS IDENTIFICATION

	EMERGENCY OVERVIEW
DANGER:	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 RESPIRATORY IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

### PICTOGRAM(S)



### **Precautionary Statements**

Prevention:	Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a w ell-ventilated area. Contaminated w ork clothing should not be allow ed out of the w orkplace. Wear protective gloves, eye protection, and face protection. In case of inadequate ventilation w ear respiratory protection.
Response:	IF ON SKIN: Wash with plenty of water. 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 unw ell. 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. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Take off contaminated clothing.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
IDH number: 467120	Product name: LOCTITE ECCOBOND FP4323 know n as 10 CC FP4323 -40CD Page 1 of 8

### 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)	CASNumber	Percentage*	
Silica, amorphous, naturally	60676-86-0	60 - 80	
hexahydromethylphthalic anhydride	25550-51-0	10 - 30	
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	5 - 10	
7-Oxabicyclo[4.1.0]hept-3-ylmethyl7- oxabicyclo[4.1.0]heptane-3-carboxylate	2386-87-0	5 - 10	
Substituted phthalic anhydride	34090-76-1	1 - 5	
Silica, amorphous, treated	68909-20-6	0.1 - 1	
benzene-1,2,4-tricarboxylic acid 1,2- anhydride	552-30-7	0.1 - 1	
Bisphenol-F Epichlorhydrin resin	9003-36-5	0.1 - 1	
Carbon black	1333-86-4	0.1 - 1	
4,4'-carbonyldiphthalic acid compd. with 2-methyl-1H-imidazole (1:2)	172140-94-2	0.1 - 1	

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

4.	FIRST AID MEASURES		
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.		
Skin contact:	Immediately flush skin w ith plenty of w ater (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Destroy contaminated leather apparel. Get medical attention.		
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.		
Symptoms:	See Section 11.		
5. FI	5. FIRE FIGHTING MEASURES		
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.		
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool w ith w ater spray.		

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

Hazardous combustion products:

Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, is olate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sew er or waterways.
Clean-up methods:	Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into w ater system; w ear full protective equipment during clean- up. Soak up w ith inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust). Scrape up spilled material and place in a closed container for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.
7.	HANDLING AND STORAGE

Handling:	Use only w ith adequate ventilation. Prevent contact w ith eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.
Storage:	For safe storage, store between 0 °C (32°F) and -40 °C (-40°F) Keep in a cool, w ell ventilated area aw ay fromheat, sparks and open flame. Keep container tightly closed until ready for use.

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
Silica, amorphous, naturally	None	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
hexahydromethylphthalic anhydride	None	None	None	None
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7- oxabicyclo[4.1.0]heptane-3-carboxylate	None	None	None	None
Substituted phthalic anhydride	(SKIN) 0.0003 ppm STEL 0.00007 ppm TWA 0.7 mg/100 cm2 TLV- SL (Dermal sensitization) (Respiratory sensitization)	None	None	None
Silica, amorphous, treated	10 mg/m3 TWA Inhalable dust.	6 mg/m3 TWA	None	None
benzene-1,2,4-tricarboxylic acid 1,2- anhydride	0.002 mg/m3 STEL Inhalable fraction and vapor. (SKIN) Inhalable fraction and vapor. 0.0005 mg/m3 TWA Inhalable fraction and vapor. (Dermal sensitization) (Respiratory sensitization)	None	None	None
Bisphenol-F Epichlorhydrin resin	None	None	None	None
Carbon black	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 PEL	None	None
4,4'-carbonyldiphthalic acid compd. with 2-methyl-1H-imidazole (1:2)	None	None	None	None

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

Eye/face protection:

Use a NIOSH approved respirator if ventilation is inadequate.

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety show ers and eye wash stations should be available.

Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/range: Specific gravity: Vapor density: viscous, liquid black aromatic Not available. 0.2 mm hg Not available. Not available. 1.8 3.6 (Air = 1)

Flash point:
Flam mable/Explosive limits - low er:
Flammable/Explosive limits - upper:
Autoignition temperature:
Flam m ability:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
VOC content:
Viscosity:
Decomposition temperature:

> 93 °C (> 199.4 °F)Not available. Not available. Not available. Not applicable < 0.1Not miscible or difficult to mix Not available. 0 % Not available. Not available.

# **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.
Incompatible materials:	Strong oxidizing agents.
Reactivity:	Not available.
Conditions to avoid:	Excessive heat. Store aw ay from incompatible materials. Heat, flames, sparks and other sources of ignition.

## **11. TOXICOLOGICAL INFORMATION**

No experimental toxicological data on the preparation as such is available.

Product toxicity data:	
------------------------	--

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects/Symptoms

Inhalation:	May cause allergic respiratory reaction. These symptoms, w hich can include chest tightness, w heezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to several hours after exposure). Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact:	Causes skin irritation. May cause allergic skin reaction.
Eye contact: Ingestion:	Causes serious eye irritation. May cause irritation to the gastrointestinal tract, mouth and mucous membranes.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Silica, amorphous, naturally	None	Nuisance dust
hexahydromethylphthalic anhydride	None	Allergen, Respiratory, Irritant
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	Allergen, Irritant
7-Oxabicyclo[4.1.0]hept-3-ylmethyl7- oxabicyclo[4.1.0]heptane-3-carboxylate	None	Allergen, Irritant
Substituted phthalic anhydride	None	Irritant, Allergen, Respiratory
Silica, amorphous, treated	None	No Target Organs
benzene-1,2,4-tricarboxylic acid 1,2- anhydride	Oral LD50 (Mouse) = 1,900 mg/kg Oral LD50 (Rat) = 3,340 mg/kg Oral LD50 (Rat) = 2,730 mg/kg Oral LD50 (Rat) = 2,030 mg/kg Dermal LD50 (Rat) = 5.6 g/kg Dermal LD50 (Rabbit) = > 2,000 mg/kg	Allergen, Blood, Irritant, Lung, Respiratory
Bisphenol-F Epichlorhydrin resin	None	Allergen, Irritant
Carbon black	Oral LD50 (Rat) = > 8,000 mg/kg	Respiratory, Some evidence of carcinogenicity
4,4'-carbonyldiphthalic acid compd. w ith 2-methyl-1H-imidazole (1:2)	None	No Records

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silica, amorphous, naturally	No	No	No
hexahydromethylphthalic anhydride	No	No	No
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
7-Oxabicyclo[4.1.0]hept-3-ylmethyl7- oxabicyclo[4.1.0]heptane-3-carboxylate	No	No	No
Substituted phthalic anhydride	No	No	No
Silica, amorphous, treated	No	No	No
benzene-1,2,4-tricarboxylic acid 1,2- anhydride	No	No	No
Bisphenol-F Epichlorhydrin resin	No	No	No
Carbon black	No	Group 2B	No
4,4'-carbonyldiphthalic acid compd. with 2-methyl-1H-imidazole (1:2)	No	No	No

# 12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

# **13. DISPOSAL CONSIDERATIONS**

#### Information provided is for unused product only.

Recommended method of disposal:

Hazardous waste number:

Follow all local, state, federal and provincial regulations for disposal.

Not a RCRA hazardous waste.

## **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)

Propershipping 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)

Propershipping 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: TSCA 12 (b) Export Notification:	This product contains one or more components that are exempt from listing on the U.S. Toxic Substances Control Act (TSCA) inventory because a Low Volume Exemption (LVE) has been granted in accordance with 40 CFR 723.50. Quantities may be limited. None above reporting de minimis
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis. Delayed Health, Immediate Health None above reporting de minimis.
California Proposition 65:	This product contains a chemical know n to the State of California to cause birth defects or other reproductive harm. This product contains a chemical know n in the State of California to cause cancer.
Canada Regulatory Information	
CEPA DSL/NDSL Status:	One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

## **16. OTHER INFORMATION**

This safety data sheet contains changes from the previous version in sections: 2, 3

### Prepared by: Product Safety and Regulatory Affairs

Issuedate: 09/26/2019

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. How ever, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all w arranties, express or implied, including w arranties of merchantability and fitness for a particular purpose, arising fromsale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export law s of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.