



Revision Number: 004.0

Issue date: 10/10/2019

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                                                                       |                                                                                                                                                                                                                                                                                    |                     |               |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|
| <b>Product name:</b>                                                  | LOCTITE ECCOBOND FP4527 known as FP4527 10CC UNDRFILL -40CD                                                                                                                                                                                                                        | <b>IDH number:</b>  | 397713        |
| <b>Product type/use:</b>                                              | Encapsulant                                                                                                                                                                                                                                                                        | <b>Item number:</b> | FP4527-V20    |
| <b>Restriction of Use:</b>                                            | None identified                                                                                                                                                                                                                                                                    | <b>Region:</b>      | United States |
| <b>Company address:</b>                                               | <b>Contact information:</b><br>Telephone: +1 (860) 571-5100<br>MEDICAL EMERGENCY Phone: Poison Control Center<br>1-877-671-4608 (toll free) or 1-303-592-1711<br>TRANSPORT EMERGENCY Phone: CHEMTREC<br>1-800-424-9300 (toll free) or 1-703-527-3887<br>Internet: www.henkelna.com |                     |               |
| Henkel Corporation<br>One Henkel Way<br>Rocky Hill, Connecticut 06067 |                                                                                                                                                                                                                                                                                    |                     |               |

## 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

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prevention:</b> | Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. In case of inadequate ventilation wear respiratory protection.                                                                                                                                                                                                             |
| <b>Response:</b>   | 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 unwell. 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. |
| <b>Storage:</b>    | Store in a well-ventilated place. Keep container tightly closed. Store locked up.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Disposal:</b>   | 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* |
|-----------------------------------|-------------|-------------|
| Silica, vitreous                  | 60676-86-0  | 60 - 80     |
| hexahydromethylphthalic anhydride | 25550-51-0  | 10 - 30     |
| Epoxy resin                       | Proprietary | 5 - 10      |
| Resin                             | Proprietary | 1 - 5       |
| Epoxy resin                       | Proprietary | 1 - 5       |
| Epoxy resin                       | Proprietary | 1 - 5       |
| Substituted phthalic anhydride    | 34090-76-1  | 1 - 5       |
| Epoxy resin                       | Proprietary | 1 - 5       |
| Epoxy resin                       | Proprietary | 0.1 - 1     |
| Substituted imidazole             | Proprietary | 0.1 - 1     |
| Epoxy resin modifier              | Proprietary | 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

|                      |                                                                                                                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.                                                                           |
| <b>Skin contact:</b> | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Check for and remove any contact lenses. Get medical attention.                                                   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Give a conscious person several glasses of water. Get medical attention.      |
| <b>Symptoms:</b>     | See Section 11.                                                                                                                                                                                            |

### 5. FIRE FIGHTING MEASURES

|                                           |                                                                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.                                                                                                              |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.                  |
| <b>Unusual fire or explosion hazards:</b> | Violent steam generation may occur upon application of direct water stream. 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 vapors. Phenolics.  
Aldehydes. Acids. 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:**

Do not allow product to enter sewer or waterways.

**Clean-up methods:**

Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Remove the absorbed material, and place in an appropriate chemical waste container for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

## 7. HANDLING AND STORAGE

**Handling:**

Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.

**Storage:**

Keep away from heat, spark and flame. Keep container closed.

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, vitreous                  | None                                                                                                                                    | 20 MPPCF TWA<br>0.8 mg/m <sup>3</sup> TWA | None      | None  |
| hexahydromethylphthalic anhydride | None                                                                                                                                    | None                                      | None      | None  |
| Epoxy resin                       | None                                                                                                                                    | None                                      | None      | None  |
| Resin                             | None                                                                                                                                    | None                                      | None      | None  |
| Epoxy resin                       | None                                                                                                                                    | None                                      | None      | None  |
| Epoxy resin                       | None                                                                                                                                    | None                                      | None      | None  |
| Substituted phthalic anhydride    | (SKIN)<br>0.0003 ppm STEL<br>0.00007 ppm TWA<br>0.7 mg/100 cm <sup>2</sup> TLV-SL (Dermal sensitization)<br>(Respiratory sensitization) | None                                      | None      | None  |
| Epoxy resin                       | None                                                                                                                                    | None                                      | None      | None  |
| Epoxy resin                       | None                                                                                                                                    | None                                      | None      | None  |
| Substituted imidazole             | None                                                                                                                                    | None                                      | None      | None  |
| Epoxy resin modifier              | None                                                                                                                                    | None                                      | None      | None  |

**Engineering controls:**

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

**Respiratory protection:**

Use a NIOSH approved respirator if ventilation is inadequate.

**Eye/face protection:**

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 showers 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:                          | Liquid                           |
| Color:                                   | Blue                             |
| Odor:                                    | Aromatic                         |
| Odor threshold:                          | Not available.                   |
| pH:                                      | Not applicable                   |
| Vapor pressure:                          | Not available.                   |
| Boiling point/range:                     | Not available.                   |
| Melting point/ range:                    | Not available.                   |
| Specific gravity:                        | 1.8                              |
| Vapor density:                           | Not available.                   |
| Flash point:                             | > 260 °C (> 500°F)               |
| Flammable/Explosive limits - lower:      | Not available.                   |
| Flammable/Explosive limits - upper:      | Not available.                   |
| Autoignition temperature:                | Not available.                   |
| Flammability:                            | Not applicable                   |
| Evaporation rate:                        | Not available.                   |
| Solubility in water:                     | Not miscible or difficult to mix |
| Partition coefficient (n-octanol/water): | Not available.                   |
| VOC content:                             | 0 %; 0 g/l (ASTM D2369)          |
| Viscosity:                               | Not available.                   |
| Decomposition temperature:               | Not available.                   |

## 10. STABILITY AND REACTIVITY

|                                   |                                                                                                                   |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Stability:                        | Stable under normal conditions of storage and use.                                                                |
| Hazardous reactions:              | None under normal processing.                                                                                     |
| Hazardous decomposition products: | Oxides of carbon. Oxides of nitrogen. Aldehydes. Phenolics. Acids. Hydrocarbons. Irritating organic vapours.      |
| Incompatible materials:           | Oxidizing agents. Acids and bases. Alcohols. Water. Amines. Sodium. Zinc. Magnesium.                              |
| Reactivity:                       | Not available.                                                                                                    |
| Conditions to avoid:              | Store away from incompatible materials. Exposure to moisture. Heat, flames, sparks and other sources of ignition. |

## 11. TOXICOLOGICAL INFORMATION

|                              |                                   |
|------------------------------|-----------------------------------|
| Relevant routes of exposure: | Skin, Inhalation, Eyes, Ingestion |
|------------------------------|-----------------------------------|

### Potential Health Effects/Symptoms

**Inhalation:** May cause respiratory tract irritation. May cause allergic respiratory reaction. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to several hours after exposure).

**Skin contact:** Causes skin irritation. May cause allergic skin reaction.

**Eye contact:** Causes serious eye irritation. May cause corneal injury.

**Ingestion:** May cause burns of mouth and throat if swallowed.

| Hazardous Component(s)            | LD50s and LC50s | Immediate and Delayed Health Effects |
|-----------------------------------|-----------------|--------------------------------------|
| Silica, vitreous                  | None            | Nuisance dust                        |
| hexahydromethylphthalic anhydride | None            | Allergen, Respiratory, Irritant      |
| Epoxy resin                       | None            | Allergen, Irritant                   |
| Resin                             | None            | Irritant, Allergen, Mutagen          |
| Epoxy resin                       | None            | Allergen, Irritant                   |
| Epoxy resin                       | None            | No Target Organs                     |
| Substituted phthalic anhydride    | None            | Irritant, Allergen, Respiratory      |
| Epoxy resin                       | None            | Irritant, Allergen                   |
| Epoxy resin                       | None            | No Target Organs                     |
| Substituted imidazole             | None            | No Records                           |
| Epoxy resin modifier              | None            | Irritant, Allergen                   |

| Hazardous Component(s)            | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|-----------------------------------|----------------|-----------------|---------------------------------------------|
| Silica, vitreous                  | No             | No              | No                                          |
| hexahydromethylphthalic anhydride | No             | No              | No                                          |
| Epoxy resin                       | No             | No              | No                                          |
| Resin                             | No             | No              | No                                          |
| Epoxy resin                       | No             | No              | No                                          |
| Epoxy resin                       | No             | No              | No                                          |
| Substituted phthalic anhydride    | No             | No              | No                                          |
| Epoxy resin                       | No             | No              | No                                          |
| Epoxy resin                       | No             | No              | No                                          |
| Substituted imidazole             | No             | No              | No                                          |
| Epoxy resin modifier              | 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:** 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)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**Exceptions:** Up to 12 oz. max per inner/primary package when shipped as originally packaged only

#### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**Exceptions:** Up to 12 oz. max per inner/primary package when shipped as originally packaged only

#### Water Transportation (IMO/IMDG)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**Exceptions:** Up to 12 oz. max per inner/primary package when shipped as originally packaged only

## 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:** None above reporting de minimis.  
**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

**CEPA DSL/NDSL Status:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 3,8,9,11,16

**Prepared by:** Product Safety and Regulatory Affairs

**Issue date:** 10/10/2019

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, 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 warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale 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 laws 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.