

Revision Number: 002.0 Issue date: 10/06/2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:3536 CSP UNDERFILL 20 OZ EFDIDH number:1061021Product type:UnderfillItem number:FP8016-A30Restriction of Use:None identifiedRegion:United States

Company address:

Henkel Electronic Materials LLC 14000 Jamboree Road Irvine, CA 92606 Contact information: Telephone: +1 (888) 943-6535

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.henkel.com/electronics

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		
WARNING:	CAUSES SKIN IRRITATION.	
	MAY CAUSE AN ALLERGIC SKIN REACTION.	
	CAUSES SERIOUS EYE IRRITATION.	

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

#### PICTOGRAM(S)



#### **Precautionary Statements**

**Prevention:** Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work

clothing should not be allowed out of the workplace. Wear eye and face protection. Wear

protective gloves.

**Response:** IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical

attention. Take off contaminated clothing.

Storage: Not prescribed

**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*	
Epoxy resin	Proprietary	10 - 30	
Epoxy resin	Proprietary	10 - 30	
Epoxy resin	Proprietary	10 - 30	
Epoxy resin	Proprietary	10 - 30	
Epoxy resin	Proprietary	0.1 - 1	
Substituted silane	Proprietary	0.1 - 1	
Resin modifier	Proprietary	0.1 - 1	
Carbon black	1333-86-4	0.1 - 1	

<sup>\*</sup> Exact percentage is a 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. If symptoms develop and persist, get medical attention.

**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

**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. Never give anything by mouth to an unconscious

person. Get medical attention.

Symptoms: See Section 11.

### 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 with water 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 vapors. Phenolics.

# 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. Ensure adequate ventilation. Isolate area.

Keep unnecessary personnel away. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready 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.

Refer to Section 8.

Storage: For safe storage, store between 2 °C (35.6 °F) and 8 °C (46.4 °F)

Keep in a cool, well ventilated area away from heat, 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
Epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None
Substituted silane	None	None	None	None
Resin modifier	None	None	None	None
Carbon black	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 PEL	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use a NIOSH approved air-purifying respirator if the potential to exceed

established exposure limits exists.

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:LiquidColor:BlackOdor:Mild

Odor threshold:
pH:
Not available.
Vapor pressure:
Not available.
Boiling point/range:
Not available.
Melting point/ range:
Not available.
Specific gravity:
1.25

Vapor density: Not available.

Flash point: 100 °C (212°F) Setaflash Closed Cup

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

Not available.

Not available.

Not available.

VOC content: 0.6 %; 7.5 g/l EPA Method 24

Viscosity: Not available.

Decomposition temperature: Not available.

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# 10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions.

**Hazardous reactions:** None under normal processing.

Hazardous decomposition

products:

Oxides of carbon. Oxides of nitrogen. Phenolics. Irritating vapors.

Incompatible materials: Amines. Alkalis. Acids and bases. Oxidizing agents. Water

Reactivity: Not available.

Conditions to avoid: Store away from incompatible materials. Heat, flames, sparks and other sources of ignition.

Exposure to sunlight. Exposure to moisture.

# 11. TOXICOLOGICAL INFORMATION

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

### **Potential Health Effects/Symptoms**

**Inhalation:** May cause respiratory tract irritation.

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

**Eye contact:** Causes serious eye irritation.

**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Epoxy resin	None	Allergen, Irritant
Epoxy resin	None	Allergen, Irritant
Epoxy resin	None	Allergen, Irritant
Epoxy resin	None	Allergen, Blood, Bone Marrow, Immune system, Irritant, Reproductive
Epoxy resin	None	No Target Organs
Substituted silane	None	Allergen, Irritant
Resin modifier	None	Irritant, Allergen
Carbon black	Oral LD50 (RAT) = > 8,000 mg/kg	Respiratory, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epoxy resin	No	No	No
Epoxy resin	No	No	No
Epoxy resin	No	No	No
Epoxy resin	No	No	No
Epoxy resin	No	No	No
Substituted silane	No	No	No
Resin modifier	No	No	No
Carbon black	No	Group 2B	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

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### 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 (Up to 20 oz. max per inner/primary package when shipped as

originally packaged only)

Hazard class or division: None Identification number: None Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-F Epichlorhydrin

resin, Bisphenol-A Epichlorhydrin resin) (Up to 20 oz. max per inner/primary

package when shipped as originally packaged only)

Hazard class or division: 9 Identification number: UN 3082 Ш

Packing group:

Water Transportation (IMO/IMDG) Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-F

Epichlorhydrin resin, Bisphenol-A Epichlorhydrin resin) (Up to 20 oz. max per

inner/primary package when shipped as originally packaged only)

Hazard class or division: Identification number: UN 3082

Packing group:

Bisphenol-F Epichlorhydrin resin, Bisphenol-A Epichlorhydrin resin Marine pollutant:

### 15. REGULATORY INFORMATION

**United States Regulatory Information** 

TSCA 8 (b) Inventory Status: All components of this product are listed on the U.S. Toxic Substances Control Act (TSCA)

inventory or are exempt from listing because a Low Volume Exemption (LVE) has been

granted in accordance with 40 CFR 723.50. 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:** 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: New Safety Data Sheet format.

IDH number: 1061021 Product name: 3536 CSP UNDERFILL 20 OZ EFD Prepared by: Debbie Friday, Regulatory Affairs Specialist

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