

# PLOYEE OWNED SINCE 2023

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Revision Number: 001.2

#### 1. **PRODUCT AND COMPANY IDENTIFICATION**

Product name:

Product type/use:

Restriction of Use:

Company address:

Henkel Corporation

Rocky Hill, Connecticut 06067

One Henkel Way

LOCTITE EF 9890 U60 AERO known as IDH number: **SYNSPAND 9890 U60** Adhesive for the Aerospace Industry None identified

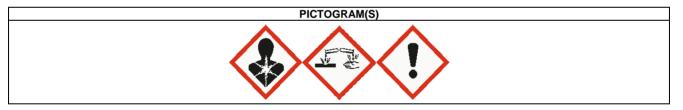
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Item number: SC9070766 Region: **United States** Contact information: Telephone: +1 (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW			
DANGER:	CAUSES SKIN IRRITATION.		
	MAY CAUSE AN ALLERGIC SKIN REACTION.		
	CAUSES SERIOUS EYE DAMAGE.		
	SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.		

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2



#### **Precautionary Statements**

Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust or fumes. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eve and face protection.
Response:	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing.
Storage:	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*	
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	30 - 60	
CP Bisphenol A Diglycidylether	25036-25-3	5 - 10	
4,4'-Isopropylidenediphenol	80-05-7	5 - 10	
Isopentane	78-78-4	1 - 5	
Phenol polymer with formaldehyde, glycidyl ether	28064-14-4	1 - 5	
Bisphenol A Diglycidyl Ether	1675-54-3	1 - 5	
Carbon black	1333-86-4	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:	If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.		
Skin contact:	Remove contaminated clothing and footwear. Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medica attention.		
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 immediate medical attention. Do not induce vomiting.		
Symptoms:	See Section 11.		
Notes to physician:	Treat symptomatically and supportively.		
5. FIR	E 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:	None		
Hazardous combustion products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.		

# 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. Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways.
Clean-up methods:	Scrape up spilled material and place in a closed container for disposal. Dispose of according to Federal, State and local governmental regulations.

# 7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Do not breathe fumes or dust from this material. Wash thoroughly after handling. For industrial use only.

Storage:

For safe storage, store at or below -18 °C (0.4 °F) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

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
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
CP Bisphenol A Diglycidylether	None	None	None	None
4,4'-Isopropylidenediphenol	None	None	None	None
Isopentane	1,000 ppm TWA	None	None	None
Phenol polymer with formaldehyde, glycidyl ether	None	None	None	None
Bisphenol A Diglycidyl Ether	None	None	None	None
Carbon black	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 PEL	None	None

Engineering controls:

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

Respiratory protection:

When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved

Eye/face protection:

Skin protection:

Safety goggles or safety glasses with side shields.

respiratory protection must be provided.

Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Solid Black None

Physical state:
Color:
Odor:
Odor threshold:
pH:
Vapor pressure:
Boiling point/range:
Melting point/ range:
Specific gravity:
Vapor density:
Flash point:
Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Flammability:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
VOC content:
Viscosity:
Decomposition temperature:

Not available. Not applicable Not applicable Not available. Not applicable Not applicable Not applicable Product is a solid. Not available. Not available. Not applicable Not applicable Not applicable Not applicable Not applicable < 10 g/l Not available. Not available.

Product name: LOCTITE EF 9890 U60 AERO known as SYNSPAND 9890 U60 Page 3 of 6

	10. STABILITY AND REACTIVITY
Stability:	Stable at normal conditions.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.
Incompatible materials:	Keep away from strong oxidizing agents, strong Lewis or mineral acids.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials.

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation.
Skin contact:	This product may cause irritation to the skin. This product may cause an allergic skin reaction.
Eye contact:	This product may cause irritation to the eyes.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	Allergen, Irritant	
CP Bisphenol A Diglycidylether	None	Irritant, Allergen	
4,4'-Isopropylidenediphenol	Oral LD50 (Rat) = 4,100 mg/kg Oral LD50 (Rat) = 3,300 mg/kg	Allergen, Blood, Irritant, Kidney, Reproductive, Spleen	
Isopentane	None	Cardiac, Central nervous system, Irritant, Lung	
Phenol polymer with formaldehyde, glycidyl ether	None	Allergen, Irritant	
Bisphenol A Diglycidyl Ether	Oral LD50 (Rabbit) = 1,980 mg/kg Oral LD50 (Mouse) = 15,600 mg/kg Oral LD50 (Rat) = > 1,000 mg/kg Oral LD50 (Mouse) = > 500 mg/kg Dermal LD50 (Rabbit) = 20 mg/kg Dermal LD50 (Rat) = > 1,600 mg/kg Dermal LD50 (Mouse) = > 800 mg/kg	Allergen, Central nervous system, Irritant, Liver, Respiratory	
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)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
CP Bisphenol A Diglycidylether	No	No	No
4,4'-Isopropylidenediphenol	No	No	No
Isopentane	No	No	No
Phenol polymer with formaldehyde, glycidyl ether	No	No	No
Bisphenol A Diglycidyl Ether	No	No	No
Carbon black	Known To Be Human Carcinogen.	Group 2B	No

# 12. ECOLOGICAL INFORMATION

Ecological information:

Harmful to aquatic organisms.

### **13. DISPOSAL CONSIDERATIONS**

Information provided is for unused product only.

Recommended method of disposal:

Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number:

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

# **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

### 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)

Proper shipping 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:	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: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis. Immediate Health, Delayed Health 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). 4,4'-Isopropylidenediphenol (CAS# 80-05-7).
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 Material Safety Data Sheet format.

Prepared by: Regulatory Affairs

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