# **Safety Data Sheet**



Revision Number: 002.8 Issue date: 10/14/2022

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: TEROSON EP 5089 STRUCTURAL ADHESIVE known as TEROKAL 5089

**Product type/use:** 1-c- epoxide adhesive **Restriction of Use:** None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

**IDH number:** 1182757

**Item number:** 1182757 **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 IRRITATION.

MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	1B

#### PICTOGRAM(S)



#### **Precautionary Statements**

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

read and understood. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear

protective gloves, clothing, eye 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. If eye

irritation persists: 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	10 - 30

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2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	1675-54-3	10 - 30
Tris(methylphenyl) phosphate	1330-78-5	1 - 5
Calcium oxide	1305-78-8	1 - 5
trixylyl phosphate	25155-23-1	0.1 - 1
Methyl ethyl ketone	78-93-3	0.1 - 0.3

<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: Move to fresh air in case of accidental inhalation of dust or fumes from

overheating or combustion.

Skin contact: For skin contact flush with large amounts of water. If symptoms develop and

persist, get medical attention.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

Ingestion: Get immediate medical attention. Do not induce vomiting.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically and supportively.

### 5. FIRE 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: This product is combustible at high temperatures.

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:** Wear appropriate protective equipment and clothing during clean-up. Do not

allow product to enter sewer or waterways. Remove all sources of ignition.

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for

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

regulations.

### 7. HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Handling:

Avoid breathing fumes if this product is used at high temperatures. Provide adequate ventilation. Do not take internally. For industrial use only.

Storage: For safe storage, store between -4 °C (24.8 °F) and 35 °C (95°F)

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Do not handle or store near an open flame, heat or

other sources of ignition.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

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### 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
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	None	None	None	None
Tris(methylphenyl) phosphate	None	None	None	None
Calcium oxide	2 mg/m3 TWA	5 mg/m3 PEL	None	None
trixylyl phosphate	None	None	None	None
Methyl ethyl ketone	200 ppm TWA 300 ppm STEL	200 ppm (590 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: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or

vapors, appropriate NIOSH/MSHA respiratory protection must be provided. Air purifying respirators must use N, R, or P series filters. The filter must be NIOSH classification 95, 99, or 100. Protection provided by air-purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known; or any other circumstances where air purifying respirators may not provide

adequate protection.

Eye/face protection: Wear safety glasses; chemical goggles (if splashing is possible).

**Skin protection:** Wear impervious gloves for prolonged contact. Gloves should be tested to

determine suitability for prolonged contact. Recommend using Nitrile gloves.

Neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Color: Purple
Odor: Mild

Odor threshold:

pH:

Not available.

Not applicable

Vapor pressure:

Not available.

Boiling point/range:

Not applicable

Melting point/ range:

Not applicable

Specific gravity:

1.1

Vapor density: Not determined

Flash point: > 110 °C (> 230°F) ASTM D3278 Setaflash Closed Cup

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Flammability:
Flammability:
Evaporation rate:
Solubility in water:
Not available.
Not available.
Not applicable
Not determined
Not applicable

Partition coefficient (n-octanol/water):

VOC content:

Viscosity:

Decomposition temperature:

Not available.

Not available.

Not available.

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## 10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

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

Hazardous decomposition

products:

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Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low

molecular weight hydrocarbons.

**Incompatible materials:** This product may react with strong acids or oxidizing agents.

Reactivity: Not available.

Conditions to avoid: Reaction with some curing agents may produce considerable heat. Run-a-way cure reactions

(polymerization) may char and decompose the resin system. Fumes and vapors from these thermal and chemical decompositions vary widely in composition and toxicity. Avoid excessive

heat and ignition sources.

## 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 can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	ous Component(s) LD50s and LC50s Immediate and Delayed Hea	
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	Allergen, Irritant
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	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	No Data
Tris(methylphenyl) phosphate	None	Blood, Gastrointestinal, Irritant, Kidney, Liver, Nervous System, Reproductive
Calcium oxide	Inhalation LC50 (Rat, 4 h) = 40 mg/m3 Inhalation LC50 (Rat, 4 h) = 160 mg/m3	Irritant, Corrosive, Eyes
trixylyl phosphate	None	No Data
Methyl ethyl ketone	Oral LD50 (Mouse) = 670 mg/kg Oral LD50 (Rat) = 2,300 - 3,500 mg/kg Oral LD50 (Rat) = 4,500 - 6,800 mg/kg Dermal LD50 (Rabbit) = > 8,000 mg/kg	Irritant, Central nervous system

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	No	No	No
Tris(methylphenyl) phosphate	No	No	No
Calcium oxide	No	No	No
trixylyl phosphate	No	No	No
Methyl ethyl ketone	No	No	No

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Do not empty into drains, soil or bodies of water.

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### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

#### 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: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin

resin)

Hazard class or division: Identification number: UN 3082 Packing group: Ш

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A

Epichlorhydrin resin)

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

Marine pollutant: Bisphenol-A Epichlorhydrin resin

**Exceptions:** Classified per IMDG Amendment 34; Effective Jan 1, 2010.

#### 15. REGULATORY INFORMATION

**United States Regulatory Information** 

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) 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: 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: New Safety Data Sheet format.

Prepared by: Regulatory Affairs

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