

**SECTION 1: Identification****1.1 Product identifier**

Product name : GILLBOND™ Epoxy Adhesive Film

Other means of identification : A193, A197

1.2 Recommended use of the chemical and restrictions on use

Uncured epoxy adhesive for bonding composite structures.

1.3 Details of the supplier of the safety data sheet

The Gill Corporation
4056 Easy Street
El Monte, CA 91731
(626) 443-4022
www.thegillcorp.com

1.4 Emergency phone number(s)

Emergency number : THE GILL CORPORATION: 1-626-443-4022 CHEMTREC: 1-800-424-9300

SECTION 2: Hazard identification**General hazard statement**

The product is non-hazardous as delivered. All components of the product are strongly bound in a solid matrix.

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 2A
- Skin corrosion/irritation, Cat. 2
- Sensitization, skin, Cat. 1
- Toxic to reproduction, Cat. 1B

2.2 GHS label elements, including precautionary statements**2.3 Other hazards which do not result in classification****Hazard statement(s)**

- H315 : Causes skin irritation
H317 : May cause an allergic skin reaction
H319 : Causes serious eye irritation
H360 : May damage fertility or the unborn child

Precautionary statement(s)

- P201 : Obtain special instructions before use
P202 : Do not handle until all safety precautions have been read and understood
P261 : Avoid breathing gas/mist/vapors/spray
P264 : Wash thoroughly after handling
P272 : Contaminated work clothing must not be allowed out of the workplace
P280 : Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 : IF ON SKIN: Wash with plenty of water
P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes
Remove contact lenses if present and easy to do. Continue rinsing.
P308+P313 : If exposed or concerned: Get medical advice/attention
P333+P313 : If skin irritation or rash occurs: Get medical advice/attention
P337+P313 : If eye irritation persists: Get medical advice/attention
P362+P364 : Take off contaminated clothing and wash it before reuse
P363 : Wash contaminated clothing before reuse
P405 : Store locked up
P501 : Dispose of contents/container in accordance with applicable Federal, State and local laws and regulations

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2.3 Other hazards which do not result in classification

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous Components

Component	Concentration Cured Phenol
Bisphenol A Epoxy Resin (CAS no.: 25068-38-6)	40 - 62 % (weight)
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene) bis (4,1-phenyleneoxymethylene)]bis[oxirane] (CAS no.: 25036-25-3)	≤15 % (weight)
Epoxy resin (CAS no.: 28064-14-4)	≤10 % (weight)
Bisphenol A (CAS no.: 80-05-7)	<3 % (weight)

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	: Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	: Wash with plenty of water for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Take off contaminated clothing and wash it before reuse.
In case of eye contact	: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.
If swallowed	: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

If inhaled	: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
In case of skin contact	: Causes skin irritation. May cause an allergic skin reaction. Signs/symptoms may include localized redness, swelling, itching, rash, and hives.
In case of eye contact	: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	: May cause gastrointestinal irritation and other adverse effects. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
Chronic effects	: May damage fertility or the unborn child.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

Hazardous combustion products: Carbon oxides, phenolic materials, and other toxic fumes and gases.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Use water spray to cool unopened containers.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Arrange disposal in accordance with applicable Federal, State and local laws and regulations. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat, sparks and open flame. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Not established.

8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection	: Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body protection	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	: Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate use respirator and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Thermal hazards	: No data available.
Environmental exposure controls	: Do not let product enter drains.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	: Coated film adhesive
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper/lower flammability limits	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Relative density	: No data available
Solubility(ies)	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Exothermic polymerization will occur in the presence of strong acids, bases, amines and thiols.

10.4 Conditions to avoid

Keep away from heat, flames and sparks. Keep away from incompatible materials.

10.5 Conditions to avoid

Strong acids, bases, amines, thiols and oxidizing agents.

10.6 Hazardous decomposition products

Carbon oxides, phenolic materials, and other toxic fumes and gases.

SECTION 11: Toxicological information

Information on toxicological effects

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation.

If inhaled	: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
In case of skin contact	: Causes skin irritation. May cause an allergic skin reaction. Signs/symptoms may include localized redness, swelling, itching, rash, and hives.
In case of eye contact	: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	: May cause gastrointestinal irritation and other adverse effects. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
Chronic effects	: May damage fertility or the unborn child.

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SECTION 11: Toxicological information

Acute toxicity	: Based on available data, classification criteria are not met
Components	: Bisphenol A Epoxy Resin (CAS no.: 25068-38-6) LD50 (oral) – rat – 11400 mg/kg LD50 (skin) – rabbit - >20mL/kg
Skin corrosion/irritation	: Causes skin irritation
Serious eye damage/irritation	: Causes serious eye irritation
Respiratory or skin sensitization	: May cause an allergic skin reaction
Germ cell mutagenicity	: No data available
Carcinogenicity	: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	: May damage fertility or the unborn child
STOT-single exposure	: No data available
STOT-repeated exposure	: No data available
Aspiration hazard	: Based on available data, classification criteria are not met

12: Ecological information

Toxicity	: No data available on product
Persistence and degradability	: No data available on product
Bioaccumulative potential	: No data available on product
Mobility in soil	: No data available.
Results of PBT and vPvB assessment	: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	: No data available

SECTION 13: Disposal considerations

Disposal of the product	: Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.
Disposal of contaminated packaging	: Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN Number: UN 3082

Class: 9

Packing group: III

Proper Shipping Name: Environmentally Hazardous Substances, Liquid N.O.S. (Bisphenol A Epoxy Resin)

IMDG

UN Number: UN 3082

Class: 9

Packing group: III

Proper Shipping Name: Environmentally Hazardous Substances, Liquid N.O.S. (Bisphenol A Epoxy Resin)

IATA

UN Number: UN 3082

Class: 9

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Acute Health Hazard.

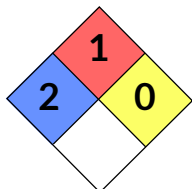
SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

HMIS Rating

Epoxy Adhesive Film	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

Date of issue

: November 14, 2022.

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. All materials may present unknown hazards and should be used with caution. In no event shall we be held liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if we have been advised of the possibility of such damages.