

## TAK-LOK™ (RESIN) SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** TAK-LOK™ (Resin)

**Product Use:** Thread locking compound, adhesive

**Manufacturer:** TAKAMOL Engineering Industries

**Address:** Factory 301, 6A Industrial Area, 10th of Ramadan, Al Sharqiya, Egypt.

**Emergency telephone number:** +201066677258

**E-mail address for questions regarding this SDS:** [info@takamol.com.eg](mailto:info@takamol.com.eg)

### 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**GHS Classification**

Skin irritation (Category 2)

Eye irritation (Category 2B)

Skin sensitization (Category 1A)

Acute aquatic toxicity (Category 2)

Chronic aquatic toxicity (Category 2)

**GHS label elements**



**Signal Word:** Warning

**Hazard statements:**

H315 – Causes skin irritation

H317 – May cause an allergic skin reaction

H319 – Causes serious eye irritation

H411 – Toxic to aquatic life with long lasting effects

**Precautionary statements:**

- **H315 (Causes skin irritation):**
  - Wash skin thoroughly after handling.
  - Wear protective gloves/clothing.
  - If skin irritation occurs, seek medical advice.
  
- **H317 (May cause an allergic skin reaction):**
  - Avoid breathing dust/fume/gas/mist/vapors/spray.
  - Contaminated work clothing should not be allowed out of the workplace.
  - If skin irritation or rash occurs, get medical attention.

- **H319 (Causes serious eye irritation):**
  - Wash hands thoroughly after handling.
  - Wear eye protection/face protection.
  - If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
  
- **H411 (Toxic to aquatic life with long-lasting effects):**
  - Avoid release to the environment.
  - Collect spillage.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Weight %
4,4'-Isopropylidenediphenol- epichlorohydrin copolymer	25068-38-6	35-60
Zinc	7440-66-6	20-30
Microsilica	69012-64-2	2-6
Talc	14807-96-6	5-10
Crystalline silica (quartz)	14808-60-7	0-5
di-n-butyl phthalate	84-74-2	3-7

### 4. FIRST AID MEASURES

<b>General:</b>	If exposed or concerned, get medical attention or advice.
<b>Inhalation:</b>	Move exposed person to fresh air. If effects occur, get medical attention.
<b>Ingestion:</b>	Wash out mouth with water. Do not induce vomiting. Get medical attention if stomach pains or nausea occur.
<b>Skin contact:</b>	Remove contaminated clothing and shoes. Wash skin with soap and water. Get medical attention if irritation symptoms persist.
<b>Eye contact:</b>	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 5 minutes, keeping eyelids open. Get medical attention.

### 5. FIRE-FIGHTING MEASURES

<b>Flash Point:</b>	>455°F (>235°C)
<b>OSHA Flammability Classification:</b>	Combustible
<b>Extinguishing Media:</b>	Use dry chemicals, CO <sub>2</sub> , foam, dry sand and limestone powder
<b>Combustion products:</b>	Carbon monoxide, carbon dioxide, phenolics
<b>Special protective equipment for fire-fighters:</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode
<b>Risk of Dust Explosion:</b>	Not applicable

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	<ul style="list-style-type: none"> <li>- Only trained personnel should clean a spill.</li> <li>- Evacuate all non-essential personnel.</li> <li>- Ventilate spill area.</li> </ul>
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	<ul style="list-style-type: none"> <li>- Avoid breathing vapors, eye and skin contact.</li> <li>- Wear appropriate personal protective equipment.</li> </ul>
<b>Environmental Precautions:</b>	<ul style="list-style-type: none"> <li>- Recover free product.</li> <li>- Use suitable oil adsorbent and dispose of material in accordance with all regulations.</li> <li>- Keep product out of sewers and watercourses, prevent soil penetration.</li> <li>- Advise authorities if large amounts of product enter waterways or extensive land areas.</li> </ul>

## 7. HANDLING AND STORAGE

**Handling:** Wear appropriate personal protection equipment. Do not eat, drink or smoke when using. Wash thoroughly after handling. Follow good hygiene and housekeeping practices.

**Storage:** Store in cool dry area in original or equivalent container in accordance with all regulations. Do not expose to extreme heat or flame. Do not expose to extreme cold. Store at 5 – 40°C, away from strong oxidizers and acids.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters:** No ingredients have workplace exposure limits.

**Engineering controls:** Use with adequate ventilation.

**Eye/face protection:** Safety glasses. Ensure eye bath is to hand.

**Hand protection:** Protective gloves. Nitrile or butyl rubber recommended.

**Skin protection:** No additional protection required beyond normal industrial attire is required.

**Respiratory protection:** No special measures required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and odor:</b>	Grey paste, mild odor
<b>Solubility:</b>	Insoluble in water
<b>Flash Point:</b>	>455°F (>235°C)
<b>Other Data:</b>	Not applicable / Not established

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable

**Polymerization:** Will not occur without amine catalyst, then it may build up heat.

**Conditions to avoid:** Extreme heat

**Incompatible materials:** Strong oxidizers, acids and alkalis.

**Hazardous Decomposition and/or Combustion Products:** See section (4)

## 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

**Acute toxicity:**

LD50 Oral – rat - >5000 mg/kg estimated, based on components

LD50 Dermal – rabbit - >5000 mg/kg estimated, based on components

**Eye damage/irritation:** May cause moderate eye irritation. Corneal damage is unlikely.

**Skin corrosion/irritation:** Prolonged or repeated contact may cause skin irritation with local redness.

### Potential chronic health effects

**Sensitization:** May cause allergic skin reaction  
**Repeated dose toxicity:** Except for skin sensitization, none anticipated  
**Carcinogenicity:** No ingredients listed as carcinogens  
**Mutagenicity:** No ingredients suspected as mutagens  
**Reproductive toxicity:** No ingredients suspected to cause reproductive effects  
**STOT repeated exposure:** No known effects

## 12. ECOLOGICAL INFORMATION

*The information given is based on data on the components and the toxicology of similar products.*

**Ecotoxicity:** Toxic to aquatic life with long lasting effects

**Reaction product:**

*bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight  $\leq 700$ ) (25068-38-6)*  
LC50 – Fish: 1.41 mg/l Source: National Institute of Technology and Evaluation, Poland.  
EC50 – Crustacea:  $\approx 2$  mg/l Test organisms (species): Daphnia magna

<b>Persistence/degradability:</b>	Not expected to be readily biodegradable
<b>Bio accumulative potential:</b>	Moderate, Log Pow estimated between 3 and 5
<b>Mobility in soil:</b>	No information available
<b>Other adverse effects:</b>	No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal:**

- Generation of waste should be avoided or minimized where possible.
- Empty containers may contain residue. Dispose of as hazardous waste via licensed waste disposal operator.
- Follow all applicable regulations.

## 14. TRANSPORT INFORMATION

**Transport information according to ADR, RID, ADN, IMDG, ICAO, IATA**

**UN number:** UN3077

**Proper shipping name:** Environmentally hazardous substance, solid, N.O.S. (epoxy resin)

**Hazard class:** Class 9

**Packing group:** PGIII

**Additional information:** Marine pollutant

**Transport information according to USDOT:** Not regulated.

## 15. REGULATORY INFORMATION

**Hazard Classification**

**OSHA Classification:** Hazardous

- Irritant, Skin (Category 2)
- Irritant, Eye (Category 2B)
- Sensitization, Skin (Category 1A)

**All components of this product are listed on or exempt from the following inventories:**

Yes - Australian Inventory of Chemical Substances (AICS)

Yes - Domestic Substances List (DSL)

Yes - Chinese Inventory

Yes - European Inventory of Existing Commercial Substances (EINECS)

Yes - Japanese Existing and New Chemical Substances (ENCS)

Yes - Korean Existing Chemicals List (KECL)  
Yes - New Zealand Hazardous Substances and New Organisms Act (HSNO)  
Yes - Philippine Inventory of Chemicals and Chemical Substances (PICCS)  
Yes - United States Toxic Substances Control Act (TSCA) Inventory

A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. OTHER INFORMATION

### Hazardous Material Information System (USA):

<b>HEALTH</b>	<b>1</b>
<b>FIRE</b>	<b>1</b>
<b>REACTIVITY</b>	<b>2</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>

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### General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**