

Bee Lok (Hardener)

Safety Data Sheet



1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Identification of the substance or mixture

Product Name: Bee Lok (Hardener)
Product Use: Thread locking compound, adhesive
Supplier: Bestolife Corporation
2777 N. Stemmons Fwy Suite 1800
Dallas, TX 75207
Phone 855-243-9164/972-865-8961
Fax 214-631-3047

Emergency telephone number: CHEMTREC U.S.: 800-424-9300, International 703-527-3887 (24 hrs/7 days)

2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation (Category 2)
Serious eye damage/eye irritation (Category 1)
Skin sensitization (Category 1B)
Respiratory sensitization (Category 1B)

GHS label elements



Signal Word:

Danger

Hazard statements:

H315 – Causes skin irritation
H317 – May cause an allergic skin reaction
H318 – Causes serious eye damage
H334 – May cause allergy or asthma symptoms or respiratory difficulties if inhaled

Precautionary statements:

P280 – Wear protective gloves/protective clothing/eye protection/face protection
P302 + P352 – IF ON SKIN: Wash with plenty of soap and 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.
P304 + P340 – IF INHALED: remove person to fresh air and keep comfortable for breathing.

Bee Lok (Hardener)

Safety Data Sheet



Other hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Amine based epoxy hardener

Hazardous components

Component	Concentration
Polyethylpolyamine (Proprietary) CAS-No. not known	5-10%
Polyethylpolyamine #1 (Proprietary) CAS-No. not known	5-10%

4. FIRST AID MEASURES

- General:** If exposed or concerned, get medical attention or advice.
- Inhalation:** Move exposed person to fresh air. If effects occur, get medical attention.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. Get medical attention.
- Skin contact:** Remove contaminated clothing and shoes. Wash skin with soap and water. Get medical attention if irritation symptoms persist.
- Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.

Note to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable media:** Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable:** Do not use water jet.
- Combustion products:** Carbon monoxide, carbon dioxide.
- Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Wear appropriate personal protection equipment (see section 8).
- Environmental precautions:** Recover free product. Use suitable adsorbent and dispose of material in accordance with all regulations. Keep product out of sewers and watercourses, prevent soil penetration. Advise authorities if large amounts of product enter waterways or extensive land areas.

7. HANDLING AND STORAGE

Bee Lok (Hardener)

Safety Data Sheet



Handling: Wear appropriate personal protection equipment (see section 8). 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:

Chemical name	CAS no.	OSHA PEL	ACGIH TLV
Polyethylenepolyamine (Proprietary)	unknown	not established	1 ppm TWA
Polyethylenepolyamine #1 (Proprietary)	unknown	not established	1 ppm TWA

Engineering controls: Use with adequate ventilation.

Eye/face protection: Safety glasses. Safety goggles where risk of splash exists. Ensure eye bath is to hand.

Hand protection: Protective gloves. Nitrile recommended.

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

Respiratory protection: Use a NIOSH approved respirator where air levels exceeding TWA may exist. Organic vapor cartridges.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor: Colorless to slightly yellow liquid, amine odor

pH: No data

Flash point: > 93°C (PMCC)

Evaporation rate: No data

Upper flammability limit: No data

Lower flammability limit: No data

Vapor pressure: No data

Vapor density: > 1

Relative density: 1.02

Solubility: Insoluble in water, soluble in alcohols and petroleum distillates

Viscosity: 300-500 cps

10. STABILITY AND REACTIVITY

Chemical stability: Stable

Polymerization: Will not occur

Conditions to avoid: Extreme heat

Incompatible materials: Strong oxidizers

Hazardous decomposition

Bee Lok (Hardener)

Safety Data Sheet



products: Carbon oxides, other unknown products

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Acute toxicity:

49CFR 173.137 & 137 – rabbit – moderate skin irritant

Polyethylenepolyamine (Proprietary):

LD50 oral – rabbit – 5500 mg/kg

LD50 oral – mouse – 38.5 mg/kg

LD50 oral – rat – 1080 mg/kg

od50 dermal – rabbit – 675 mg/kg

Polyethylenepolyamine #1 (Proprietary):

LD50 oral – rat – 2800 mg/kg

LD50 dermal – rabbit – 550 mg/kg

Eye damage/irritation: Causes serious eye damage. Direct contact with eyes can cause irreversible damage including blindness.

Skin corrosion/irritation: Contact may cause skin irritation with local redness.

Potential chronic health effects

Sensitization: May cause allergic skin and respiratory reactions.

Repeated dose toxicity: Except for skin and respiratory sensitization, none anticipated.

Carcinogenicity: No ingredients listed as carcinogens.

Mutagenicity: No ingredients listed as mutagens.

Reproductive toxicity: No ingredients listed as reproductive toxins.

STOT repeated exposure: No known effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No known significant effects or critical hazards.

Persistence/degradability: No information available.

Bioaccumulative potential: No information available.

Mobility in soil: No information available.

Other adverse effects: 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: Not regulated

Transport information according to USDOT: Not regulated.

Bee Lok (Hardener)

Safety Data Sheet



15. REGULATORY INFORMATION

US Regulations

SARA 302 Extremely Hazardous Substances: None.

SARA 313 Components: None.

State Regulations

California Prop 65: No ingredients listed.

Massachusetts Right to Know: Polyethylenepolyamine (Proprietary), Polyethylenepolyamine #1 (Proprietary)

New Jersey Right to Know: Polyethylenepolyamine (Proprietary), Polyethylenepolyamine #1 (Proprietary)

Pennsylvania RTK Hazardous Substances: Polyethylenepolyamine (Proprietary), Polyethylenepolyamine #1 (Proprietary)

United States inventory (TSCA): All ingredients listed or exempt.

International regulations

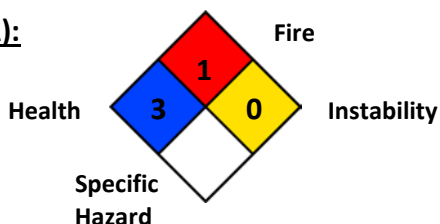
Canada: WHMIS Classification: D1A: Material causing immediate and serious toxic effects (very toxic). D2A: Material causing other toxic effects (Very toxic). D2B: Material causing other toxic effects (toxic). **WHMIS:** This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

Hazardous Material Information System (USA):

HEALTH	3*
FIRE	1
REACTIVITY	0
PERSONAL PROTECTION	B

National Fire Protection Association (USA):



Revision information: Original GHS issue.

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 is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and WE MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION HEREIN. Accordingly, we will not be responsible for damages resulting from use or reliance upon information contained herein regardless of whether it is claimed that the information is inaccurate, incomplete, or otherwise misleading. The information relates only to the

Bee Lok (Hardener) Safety Data Sheet



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