ThredOn T-Lok 900 (Resin)
Safety Data Sheet

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

Identification of the substance or mixture

Product Name: ThredOn T-Lok 900 (Resin)
Product Use: Thread locking compound, adhesive
Manufacturer: South Coast Products
20 Southbelt Industrial Dr
Houston, TX 77047 USA
Emergency telephone number: +1 813 248 0585, 24 hours
Refer to code 0953A
E-mail address for questions regarding this SDS: janer@socousa.com

2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation (Category 2)
Eye irritation (Category 2A)
Skin sensitization (Category 1)
Germ cell mutagenicity (Category 2)
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
H341 – Suspected of causing genetic effects
H411 – Toxic to aquatic life with long lasting effects
Precautionary statements:
P202 – Do not handle until all safety precautions have been read and understood
P273 – Avoid release to the environment

P280 – Wear protective gloves/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.

Other hazards: High pressure injection under skin is a medical emergency.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Concentration
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers CAS-No. 25085-99-8	30-45%
1,2-Epoxy-3-(2-methylphenoxy)propane CAS-No. 2210-79-9	10-20%

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 if stomach pains or nausea occur.
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 5 minutes, keeping eyelids open. Get medical attention.

5. FIRE-FIGHTING MEASURES

Suitable media: Use dry chemical, CO_2, water spray (fog) or foam.
Not suitable: Do not use water jet.
Combustion products: Carbon monoxide, carbon dioxide, phenolics.
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 oil 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

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:	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

Appearance and odor:	Grey paste, mild odor
pH:	Not applicable, insoluble in water
Flash point:	121°C (250°F) (PMCC)
Evaporation rate:	No data
Upper flammability limit:	Not applicable
Lower flammability limit:	Not applicable
Vapor pressure:	No data
Vapor density:	No data
Relative density:	1.4
Solubility:	Insoluble in water
Viscosity:	Cone penetration 330-365 (ASTM D217)

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.
Hazardous decomposition products:	Carbon oxides, phenolics

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: Suspected of causing genetic effects
Reproductive toxicity: No ingredients suspected to cause reproductive effects
STOT repeated exposure: No known effects

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life with long lasting effects

Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers

Toxicity to fish: LC50 – Oncorhynchus mykiss (rainbow trout) – 96h – 2 mg/l
Toxicity to daphnia and other aquatic invertebrates: EC50 – Daphnia magna (water flea) – 48h – 1.8 mg/l
Toxicity to algae: EC50 – Scenedesmus capricornutum (fresh water algae) – 72h – 11 mg/l
Chronic toxicity: NOEC – Daphnia magna (water flea) – 21d – 0.3 mg/l

1,2-Epoxy-3-(2-methylphenoxy)propane

Toxicity to fish: LC50 – Oncorhynchus mykiss (rainbow trout) – 96h – 7.5 mg/l
Toxicity to daphnia and other aquatic invertebrates: EC50 – Daphnia magna (water flea) – 48h – 3.3 mg/l
Toxicity to algae: EC50 – Scenedesmus capricornutum (fresh water algae) – 72h – 5.1 mg/l

Persistence/degradability: Not expected to be readily biodegradable
Bioaccumulative potential: Moderate, Log Pow estimated between 3 and 5
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

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

Note: UN3077 is **not regulated** in containers 5kg or less, per IATA DGR Special Provision A197 and IMDG Section 2.10.2.7

Transport information according to USDOT: Not regulated.

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: No ingredients listed.
New Jersey Right to Know: No ingredients listed.
Pennsylvania RTK Hazardous Substances: No ingredients listed.

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

International regulations

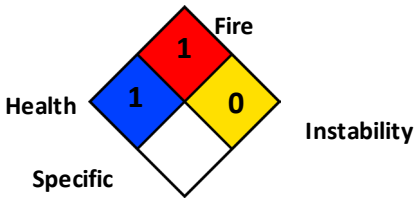
Canada: WHMIS Classification: D2B: Material causing other toxic effects (toxic). **WHMIS**: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

Hazardous Material Information System (USA):

HEALTH	1*
FIRE	1
REACTIVITY	0
PERSONAL PROTECTION	B

National Fire Protection Association (USA):



Revision information: Rev. 1: added additional information in Section 14. Rev 2: added note to Section 14. Rev 3: corrected Section 2 to include germ cell mutagenicity (cat. 2) – H341. Rev 3: reviewed with no changes. Rev 4: reviewed with no changes. Rev 5: reviewed with no changes. Rev 6: international shipping exception details added in Section 14. Rev 7: updated email.

END OF SAFETY DATA SHEET

ThredOn T-Lok 900 (Hardener)
Safety Data Sheet

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

Identification of the substance or mixture

Product Name:	ThredOn T-Lok 900 (Hardener)
Product Use:	Thread locking compound, adhesive
Manufacturer:	South Coast Products 20 Southbelt Industrial Dr Houston, TX 77047 USA
Emergency telephone number:	+1 813 248 0585, 24 hours Refer to code 0953B
E-mail address for questions regarding this SDS:	janer@socousa.com

2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation (Category 2)
Serious eye damage/eye irritation (Category 1)
Skin sensitization (Category 1)
Respiratory sensitization (Category 1)
Reproductive toxicity (Category 2)
Reproductive toxicity (Category 2)
Specific target organ toxicity, repeated exposure (Category 1)

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
H361d – Suspected of damaging the unborn child
H361f – Suspected of damaging fertility
H372 – Causes damage to organs through prolonged or repeated exposure: (kidneys, lungs, liver, skin)
Precautionary statements:

P202 – Do not handle until all safety precautions have been read and understood.
P280 – Wear protective gloves/protective clothing/eye protection/face protection
P261 – Avoid breathing vapors
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.
P314 – Get medical attention or advice if you feel unwell

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, CO_2, 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

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 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: Suspected of damaging fertility and the unborn child.
STOT repeated exposure: Kidneys, lungs, liver, skin.

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.

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

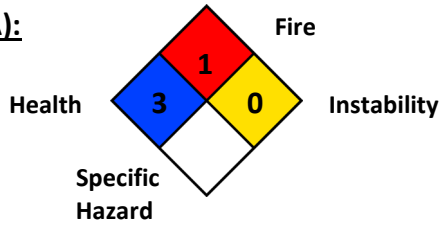
Canada: WHMIS Classification: D1A: Material causing immediate and serious toxic effects (very toxic). D2A: Material causing other toxic effects (Very toxic). D2B: Material causing other toxic effects (toxic). **WHMIS**: This product has been classified according to the hazard criteria of the CPR and 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: Rev 1: corrected classification in Section 2. Rev 2: updated Section 2 to include reproductive and STOT statements and corollary changes in Section 11. Rev 3: reviewed with no changes. Rev 4: reviewed with no changes. Rev 5: revised email.

END OF SAFETY DATA SHEET