



# SAFETY DATA SHEET

**Creation Date**  
07-Feb-2023

**Revision Date**  
13-Jun-2023

**Version**  
2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Natural-Therm® Zero

**Synonyms** Natural Therm Zero B Component  
Natural Therm Zero Spray Polyurethane Foam Insulation System

**Product Code** OCNP00005

**Manufacturer Address** Natural Polymers, LLC , a subsidiary of Owens Corning  
14438 E North Ave  
Cortland, IL 60112

**Company Phone Number** 1-800-GET-PINK or 1-800-438-7465  
**24 Hour Emergency Phone Number** Chemtrec 1-800-424-9300 or 1-703-741-5970 CCN17393  
**Emergency Telephone** 1-419-248-5330 (after 5 pm ET and weekends)

## 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

### Label elements

#### Danger

#### Hazard statements

Harmful if swallowed  
Causes skin irritation  
Causes serious eye damage



#### ERG Code Eyes

Specific treatment (see first aid information on this label)  
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

#### Skin

- Immediately call a POISON CENTER or doctor/physician
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse

**Ingestion** • IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
• Rinse mouth

**Precautionary Statements - Disposal** • Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)** • Not applicable

**Unknown acute toxicity** • No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Product Components

Chemical name	CAS No.	Weight-%	Trade Secret
TCP	13674-84-5	10-20	*
2,2'-oxydiethanol	111-46-6	5-10	*
Surfactant	Proprietary	<5	*
Reactive amine catalyst	Proprietary	<5	*
Catalyst 1-1	Proprietary	<5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

#### Description of First Aid Measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Eye contact**

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
- Remove contact lenses, if present and easy to do. Continue rinsing
- Protect uninjured eye.
- Seek immediate medical attention, preferably from an ophthalmologist.

**Skin contact**

- Remove contaminated clothing and shoes
- Rinse skin with copious amounts of water [shower] for several minutes.
- Wash contaminated clothing before reuse
- Get medical attention if irritation develops and persists

**Inhalation**

- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- If breathing is difficult, give oxygen
- If breathing has stopped, give artificial respiration. Get medical attention immediately
- (Get medical attention immediately if symptoms occur.)

**Ingestion**

- If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center.
- Rinse mouth with water (only if the person is conscious)
- Stop if the exposed person feels sick as vomiting may be dangerous.
- (Get medical attention immediately if symptoms occur.)

**Most important symptoms and effects, both acute and delayed**

- Skin contact may result in redness, pain, burning, and inflammation.
- Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision.
- Effects are dependent on exposure (dose, concentration, contact time).

**Note to physicians**

- Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	<ul style="list-style-type: none"> <li>• Water spray (fog)</li> <li>• Carbon dioxide (CO2)</li> <li>• Dry chemical</li> <li>• Alcohol resistant foam</li> </ul>
<b>Unsuitable extinguishing media</b>	<ul style="list-style-type: none"> <li>• DO NOT use water jet, it may spread the fire.</li> </ul>
<b>Specific hazards arising from the chemical</b>	<ul style="list-style-type: none"> <li>• Thermal decomposition can lead to release of irritating and toxic fumes and gases.</li> <li>• Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes</li> </ul>
<b>Explosion data</b>	
<b>Sensitivity to Mechanical Impact</b>	• No
<b>Sensitivity to Static Discharge</b>	• No
<b>Protective equipment and precautions for firefighters</b>	<ul style="list-style-type: none"> <li>• As in any fire, wear self-contained breathing apparatus (SCBA) in positive pressure mode and full fire-fighting protective gear.</li> <li>• Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>• Move containers from fire area if you can do it without risk</li> <li>• Cool containers with flooding quantities of water until well after fire is out</li> <li>• Avoid unnecessary run-off of extinguishing media which may cause pollution.</li> </ul>

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	<ul style="list-style-type: none"> <li>• Use personal protections recommended in Section 8</li> <li>• Avoid contact with skin, eyes or clothing</li> <li>• Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>• DO NOT walk through spilled material.</li> <li>• Wash thoroughly after handling</li> </ul>
<b>Environmental precautions</b>	<ul style="list-style-type: none"> <li>• Prevent further leakage or spillage if safe to do so</li> <li>• Prevent from reaching drains, sewers and waterways.</li> <li>• Discharge into the environment must be avoided.</li> </ul>

### Methods and material for containment and cleaning up

<b>Methods for containment</b>	<ul style="list-style-type: none"> <li>• Do not touch damaged containers or spilled material unless wearing appropriate protective clothing</li> <li>• Perform without risk.</li> <li>• Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.</li> </ul>
<b>Methods for cleaning up</b>	<ul style="list-style-type: none"> <li>• Clean and neutralize spill area, tools and equipment by washing with water and soap.</li> <li>• Absorb, restate and add to the collected waste.</li> <li>• Waste must be classified and labeled prior to recycling or disposal.</li> <li>• Dispose of waste as indicated in Section 13.</li> </ul>

## 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	<ul style="list-style-type: none"> <li>• Use personal protections recommended in Section 8</li> <li>• Provide adequate ventilation</li> <li>• Do not taste or swallow.</li> <li>• Avoid contact with skin, eyes or clothing</li> <li>• Avoid breathing mist/vapor/spray.</li> <li>• When using, do not eat, drink or smoke.</li> <li>• Wash hands, forearms and face after handling.</li> </ul>
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**Conditions for safe storage, including any incompatibilities**

- Storage Conditions**
- Keep containers tightly closed in a dry, cool and well-ventilated place
  - Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)
  - Do not store near incompatible materials (see Section 10)
- Incompatible materials**
- Strong oxidizing agents
  - Strong acids

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Formaldehyde 50-00-0	STEL: 0.3 ppm TWA: 0.1 ppm	TWA: 0.75 ppm STEL: 2 ppm see 29 CFR 1910.1048	IDLH: 20 ppm Ceiling: 0.1 ppm 15 min TWA: 0.016 ppm

- Engineering Controls.**
- Showers
  - Eyewash stations
  - Ventilation systems
  - Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

**Individual protection measures, such as personal protective equipment**

- Eye/face protection**
- Wear safety glasses with side shields (or goggles)
  - Wear face shield if splash hazard exist
  - Ensure compliance with OSHA's PPE standard(29 CFR 1910.132 and .133) for eye and face protection.
- Skin and body protection**
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Gloves must be inspected prior to and during the use.
  - It should be noted that the time to breakthrough for any glove material may be different for different glove manufactures. Protection time for the mixtures may not be accurately estimated.
  - Avoid contract with used gloves.
  - Remove contaminated clothing and used gloves properly to avoid any skin contact.
  - Full body protection shall be worn. PPE selection should be based on the task being performed and risks involved. Approval by a specialist before handling is necessary.
  - National standards for the PPEs associated with using this product shall be met.
- Respiratory protection**
- If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations
- General Hygiene Considerations**
- Do not eat, drink or smoke when using this product
  - Wash hands after handling, before breaks, and at the end of the workday.
  - Avoid contact with skin, eyes or clothing
  - Wash contaminated clothing before reuse
  - Perform routine housekeeping.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Liquid
<b>Odor</b>	Aromatic
<b>Color</b>	Tan
<b>pH value</b>	7.0-9.0
<b>Melting point / freezing point</b>	No data available
<b>Boiling point / boiling range</b>	No data available
<b>Flash point</b>	: > 220 °F
<b>Evaporation rate</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	550-700 cPs at 77 °F (25°C) (Kinematic viscosity)
<b>Specific Gravity</b>	1.08-1.12 g/cc

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	• Not reactive under recommended handling and storage conditions.
<b>Chemical stability</b>	• Stable under recommended handling and storage conditions.
<b>Possibility of Hazardous Reactions</b>	• No hazardous decomposition under normal conditions of storage and use
<b>Conditions to avoid</b>	• Incompatible materials
<b>Incompatible materials</b>	• Strong oxidizing agents • Strong acids
<b>Hazardous Decomposition Products</b>	• In a fire, product will give off irritating fumes (CO, CO <sub>2</sub> ).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** No data available

Chemical name	Oral LD50	LD50/dermal/rat - NO UNITS (Wizards mg/kg)	Inhalation LC50
Glycerin-initiated polyether polyol (5000 mw)	> 10 g/kg ( Rat )	-	-
TCPP 13674-84-5	= 1500 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	> 5.05 mg/L ( Rat ) 4 h
Blowing Agent	-	-	> 690 mg/L ( Rat ) 4 h
2,2'-oxydiethanol 111-46-6	= 12565 mg/kg ( Rat )	= 11890 mg/kg ( Rabbit )	> 4600 mg/m <sup>3</sup> ( Rat ) 4 h
Surfactant	= 1310 mg/kg ( Rat )	-	-
Reactive amine catalyst	-	= 5700 mg/kg ( Rabbit )	-
Polypropylene glycol 25322-69-4	= 3750 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	-
Alkyl Tin Catalyst	-	1000 - 2000 mg/kg ( Rabbit )	-
Catalyst 1-3	= 922 mg/kg ( Rat )	= 600 µL/kg ( Rabbit )	> 4.31 mg/L ( Rat ) 4 h
Polyethylene Glycol	= 22 g/kg ( Rat )	> 20 g/kg ( Rabbit )	-

25322-68-3			
Formaldehyde 50-00-0	= 100 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	< 463 ppm ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available

Chemical name	ACGIH	IARC	NTP	OSHA
Formaldehyde 50-00-0	A1	Group 1	Known	X

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

**12. ECOLOGICAL INFORMATION**

Chemical name	Algae/aquatic plants	Fish	Crustacea
TCPP 13674-84-5	45: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 4: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	56.2: 96 h <i>Brachydanio rerio</i> mg/L LC50 static 98: 96 h <i>Pimephales promelas</i> mg/L LC50 static 30: 96 h <i>Poecilia reticulata</i> mg/L LC50 static	63: 48 h <i>Daphnia magna</i> mg/L EC50
Blowing Agent	-	76.1: 96 h <i>Oryzias latipes</i> mg/L LC50 semi-static	-
2,2'-oxydiethanol 111-46-6	-	75200: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through	84000: 48 h <i>Daphnia magna</i> mg/L EC50
Catalyst 1-3	56.2: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 57.5: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	-	59.5: 48 h <i>Daphnia magna</i> mg/L EC50
Formaldehyde 50-00-0	-	22.6 - 25.7: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 1510: 96 h <i>Lepomis macrochirus</i> µg/L LC50 static 41: 96 h <i>Brachydanio rerio</i> mg/L LC50 static 0.032 - 0.226: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 flow-through 100 - 136: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 23.2 - 29.7: 96 h <i>Pimephales promelas</i> mg/L LC50 static	2: 48 h <i>Daphnia magna</i> mg/L LC50 11.3 - 18: 48 h <i>Daphnia magna</i> mg/L EC50 Static

**Persistence and degradability** Formulation data is not available.

**Bioaccumulation** Formulation data is not available.

Chemical name	Partition coefficient
TCPP 13674-84-5	2.68
Blowing Agent	2.3
2,2'-oxydiethanol 111-46-6	-1.98
Surfactant	5.669
Reactive amine catalyst	-0.48
Catalyst 1-2	0.817

Polypropylene glycol 25322-69-4	1.13
Alkyl Tin Catalyst	3.11
Catalyst 1-3	-0.352
Formaldehyde 50-00-0	0.35

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations

**Contaminated packaging** Do not reuse container

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Formaldehyde 50-00-0	U122	Included in waste streams: K009, K010, K038, K040, K156, K157	-	U122

**14. TRANSPORT INFORMATION**

**Note:** • Not regulated.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
TCPP 13674-84-5	X	X		X		X	X	X	X	X
2,2'-oxydiethanol 111-46-6	X	X		X		X	X	X	X	X
Surfactant	X	X				X	X	X	X	X
Reactive amine catalyst	X	X			X	X	X		X	
Catalyst 1-1	X	X			X		X			X

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Surfactant -	1.0
Formaldehyde - 50-00-0	0.1

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2,2'-oxydiethanol 111-46-6	-	-	X
Catalyst 1-3	X	X	X
Formaldehyde 50-00-0	X	X	X

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

**Creation Date** 07-Feb-2023  
**Revision Date** 13-Jun-2023  
**Revision Note** No information available

### Disclaimer

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

**End of Safety Data Sheet**