

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.21.2020

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Natural Therm Zero B Componet SDS

SECTION 1: Identification

Product identifier

Product name: Natural Therm Zero B Componet SDS

Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

Natural Polymers, LLC

14438 East North Ave

Cortland, IL 60112

888-563-3111

naturalpolymers@gsmsds.com

Emergency telephone number:

United States

Natural Polymers, LLC

888-563-3111 (24 hours)

SECTION 2: Hazard(s) identification

GHS classification:

Skin irritation, category 2

Serious eye damage, category 1

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H315 Causes skin irritation

H318 Causes serious eye damage

Precautionary statements:

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 IF ON SKIN: Wash with plenty of water/soap

P321 Specific treatment (see supplemental first aid instructions on this label)

P332+P313 If skin irritation occurs: Get medical advice/attention

P362 Take off contaminated clothing and wash it before reuse

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER/doctor

Hazards not otherwise classified: None

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SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 9082-00-2	Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	20-50
CAS number: 127087-87-0	4-Nonylphenol, branched, ethoxylated	3-10
CAS number: 13674-84-5	Tris(2-chloro-1-methylethyl) phosphate	10-15
CAS number: 2212-32-0	Trade secret ingredient 1	<2
CAS number: Trade secret	Trade secret ingredient 2	<2
CAS number: Trade secret	Trade secret ingredient 3	<3

Additional Information:

The specific chemical identity and/or exact percentages (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After eye contact:

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist.

After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

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.

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Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

Immediate medical attention and special treatment

Specific treatment:

In case of eye contact, seek prompt medical attention while rinsing is continued.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet, it may spread the fire.

Specific hazards during fire-fighting:

Substance is non-combustible but it may decompose upon heating to produce irritating/toxic fumes.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA with a full-face piece operated in positive pressure mode).

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, fume and spray. Do not walk through spilled material. Wash hands thoroughly after handling.

Environmental precautions:

Avoid release to the environment. Prevent soil and water pollution. Prevent spreading in sewers. Notify authorities if product enters sewers or public waters

Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do it without risk. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

Clean and neutralize spill area, tools and equipment by washing with water and soap. Absorb, reinstate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

Reference to other sections:

For disposal see section 13.

For personal protection see section 8.

SECTION 7: Handling and storage

Precautions for safe handling:

Wear recommended personal protective equipment (see section 8). Only use with adequate ventilation. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing mist/vapor/spray. Do not eat, drink or smoke while handling this product. Wash hands, forearms and face after handling.

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Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. 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).

Personal protection equipment

Eye and face protection:

Tightly fitting safety goggles

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

General hygienic measures:

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday. Appropriate techniques should be applied to remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Tan liquid
Odor	Aromatic
Odor threshold	Not determined or not available.
pH	7.0 - 9.0
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Closed cup: > 220° F
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.

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Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1.08-1.12 g/cc
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	550-700 cPs at 77°F (25° C)
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal storage and handling conditions.

Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:

Incompatible materials.

Incompatible materials:

Strong oxidizing agents.

Strong acids.

Hazardous decomposition products:

In a fire, product will give off irritating fumes (CO, CO₂)

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
4-Nonylphenol, branched, ethoxylated	oral	LD50 Rat: 657.2 mg/kg
Tris(2-chloro-1-methylethyl) phosphate	oral	LD50 Rat: 2800 mg/kg
	dermal	LD50 Rabbit: > 2000 mg/kg
Trade secret ingredient 1	oral	LC50 Rat: 2570 mg/kg
Trade secret ingredient 2	oral	LD50 Rat: 1007 mg/kg
	dermal	LD50 Rabbit: 5700 mg/kg
Trade secret ingredient 3	oral	LD50 Rat: >2150 mg/kg
	inhalation	LC50 Rat: >68 ppmV (4 hours)
	dermal	LD50 Rabbit: 1663 mg/kg

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Skin corrosion/irritation

Assessment:

Causes skin irritation.

Product data:

No data available.

Substance data:

Name	Result
4-Nonylphenol, branched, ethoxylated	Causes skin irritation.
Trade secret ingredient 1	Causes severe skin burns.
Trade secret ingredient 2	Causes severe skin burns.
Trade secret ingredient 3	Causes severe skin burns.

Serious eye damage/irritation

Assessment:

Causes serious eye damage.

Product data:

No data available.

Substance data:

Name	Result
4-Nonylphenol, branched, ethoxylated	Causes serious eye damage.
Trade secret ingredient 1	Causes serious eye damage.
Trade secret ingredient 2	Causes serious eye damage.
Trade secret ingredient 3	Causes serious eye damage.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

OSHA Carcinogens: Not applicable

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

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Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

Ocular, dermal, oral.

Symptoms related to the physical, chemical and toxicological characteristics:

Please refer to section 4 of this SDS.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Trade secret ingredient 1	LC50 Oncorhynchus mykiss: 54 mg/L (96 hours)
	EC50 Daphnia magna: 100 mg/L (48 hours)
Trade secret ingredient 2	LC50 Oncorhynchus mykiss: 320 mg/L (96 hours)
	EC50 Daphnia magna: 72 mg/L (48 hours)
Trade secret ingredient 3	LC50 Leuciscus idus: 320 mg/L (96 hours)
	EC50 Daphnia magna: >100 mg/L (48 hours)

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Trade secret ingredient 2	NOEC Daphnia magna: 1.9 mg/L (28 days)

Persistence and degradability

Product data: No data available.

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Substance data:

Name	Result
4-Nonylphenol, branched, ethoxylated	Substance is not biodegradable.
Tris(2-chloro-1-methylethyl) phosphate	This substance is inherently biodegradable.
Trade secret ingredient 1	Not readily biodegradable.
Trade secret ingredient 2	Not readily biodegradable.
Trade secret ingredient 3	Not readily biodegradable.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
4-Nonylphenol, branched, ethoxylated	Substance is not expected to bioaccumulate in the food chain.
Tris(2-chloro-1-methylethyl) phosphate	This substance has low potential to bioaccumulate.

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Tris(2-chloro-1-methylethyl) phosphate	This substance has low potential to be absorbed by the soil.
Trade secret ingredient 1	Low adsorption potential.
Trade secret ingredient 2	Koc at 20°C: 11754
Trade secret ingredient 3	Koc at 20°C: 39

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

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International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA): All the ingredients are listed or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals: None of the ingredients are listed.

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know: None of the ingredients are listed.

New Jersey Right to Know: None of the ingredients are listed.

New York Right to Know: None of the ingredients are listed.

Pennsylvania Right to Know: None of the ingredients are listed.

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered 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 materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 3-0-0

HMIS: 3-0-0

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End of Safety Data Sheet