

## SAFETY DATA SHEET

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### 1. IDENTIFICATION

**Product Name:** ALPEX™ CK 450/PAST technical resins  
**Synonyms:** None  
**Product Description:** Modified cyclized polyisoprene (Cyclized rubber)  
**Molecular Formula:** Polymer  
**Molecular Weight:** Polymer  
**Intended/Recommended Use:** Binder

Allnex USA Inc., 9005 Westside Parkway, Alpharetta, Georgia 30009, USA

**For Product and all Non-Emergency Information call** your local Allnex contact point or contact us at <http://www.allnex.com/contact>

**EMERGENCY PHONE (24 hours/day) - For emergency only involving spill, leak, fire, exposure or accident call:**

+1-866-928-0789 (toll free) or +1-215-207-0061 (Carechem 24 - Allnex29003-NCEC)

See Section 16 for Emergency phone numbers for other regions.

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Reproductive Toxicant Hazard Category 2  
Aquatic Environment Acute Hazard Category 3  
Aquatic Environment Chronic Hazard Category 3

#### LABEL ELEMENTS



#### Signal Word

WARNING

#### Hazard Statements

Suspected of damaging fertility or the unborn child  
Harmful to aquatic life with long lasting effects

#### Precautionary Statements

Obtain special instructions before use.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid release to the environment.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.

Dispose of contents/container in accordance with local and national regulations.

### Hazards Not Otherwise Classified (HNOC), Other Hazards

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.  
By excessive exposure to dust, eye and respiratory tract irritation is possible.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### HAZARDOUS INGREDIENTS

Component / CAS No.	%	GHS Classification
2,6-(Di-t-butyl)-p-cresol 128-37-0	< 0.5	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
4-tert-Butylphenol 98-54-4	< 0.4	Repr. 2 (H361f) STOT Single 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 2 (H401) Aquatic Chronic 1 (H410)

The specific chemical identity and/or exact percentage of composition for one or more ingredients has been withheld as a trade secret.

Additional GHS classification or other information may be included in this section but has not been adopted by OSHA. See Section 16 for full text of H phrases.

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## 4. FIRST AID MEASURES

### First-aid Measures

**Inhalation:**

Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

**Skin Contact:**

Wash immediately with plenty of water and soap.

**Eye Contact:**

Rinse immediately with plenty of water for at least 15 minutes.

**Ingestion:**

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

**Most Important Symptoms and Effects, Acute and Delayed**

None known.

**Immediate Medical Attention and Special Treatment**

Not applicable.

**Notes To Physician:**

No specific measures have been identified.

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## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**

Use water spray or fog, carbon dioxide or dry chemical.

**Unsuitable Extinguishing Media:**

Alkaline dry chemicals, high volume water jet.

**Protective Equipment:**

Firefighters, and others exposed, wear self-contained breathing apparatus.

**Special Hazards:**

Dust may be explosive if mixed with air in critical proportions and in the presence of a source of ignition.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. Refer to Section 8 (Exposure Controls/Personal Protection) for appropriate personal protective equipment.

**Methods For Cleaning Up:**

Sweep up into containers for disposal. Flush spill area with water.

**Environmental Precautions:**

Avoid release to the environment.

**References to other sections:**

See Sections 7, 8 and 13 for additional information.

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## 7. HANDLING AND STORAGE

### HANDLING

**Precautions:** Avoid release to the environment.

**Special Handling Statements:** Provide good ventilation of working area (local exhaust ventilation if necessary). During processing and handling of the product, comply with the indicative occupational exposure limit values. Maintain good housekeeping to control dust accumulations.

### STORAGE

Store in a cool, dry, well ventilated place and keep container tightly closed. Take precautionary measures against electrostatic loading - earthing necessary during loading operations. Keep away from sources of ignition - refrain from smoking.

**Storage Temperature:** Room temperature

**Reason:** Quality.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures:**

Engineering controls are not usually necessary if good hygiene practices are followed.

**Respiratory Protection:**

For operations where inhalation exposure can occur use an approved respirator. Recommendations are listed below. Other protective respiratory equipment may be used based on user's own risk assessment. Recommended respirators include those certified by NIOSH.

**Recommended:**

Full Face Mask with particle Type P2 filter

**Eye Protection:**

Wear eye/face protection such as chemical splash proof goggles or face shield.

**Skin Protection:**

Avoid skin contact. Wear impermeable gloves.

**Hand Protection:**

Wear protective gloves. Recommendations are listed below. Other protective materials may be used based on user's own risk assessment. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Replace gloves immediately when torn or any change in appearance (dimension, color, flexibility etc.) is noticed.

Gloves for repeated or prolonged exposure - non exhaustive list:

Nitrile rubber (NBR), thickness: > 0.38 mm, break through time: up to 480 min

Gloves for short term exposure/splash protection - non exhaustive list:

Nitrile rubber (NBR), thickness: 0.12 mm, break through time: up to 30 min

The chemical resistance depends on the type of product and amount of product on the glove. Therefore gloves need to be changed when in contact with chemicals.

Not suitable gloves - non exhaustive list:

Natural rubber (NRL), thickness: 0.12 mm

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. Use PE gloves as under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals.

**Additional Advice:**

Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

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**Exposure Limit(s)****128-37-0      2,6-(Di-t-butyl)-p-cresol**

OSHA (PEL):	Not established
ACGIH (TLV):	2 mg/m <sup>3</sup> inhalable fraction and vapor (TWA)
Other Value:	Not established

**Biological Exposure Limit(s)**

No values have been established.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color:</b>	brown
<b>Appearance:</b>	pastille
<b>Odor:</b>	slight
<b>Boiling Point:</b>	Not applicable
<b>Melting Point:</b>	122 - 138 °C 252 - 280 °F DIN 53181
<b>Vapor Pressure:</b>	Not applicable
<b>Specific Gravity/Density:</b>	1 g/cm <sup>3</sup> @ 20 °C
<b>Vapor Density:</b>	Not available
<b>Percent Volatile (% by wt.):</b>	Not available
<b>pH:</b>	Not applicable
<b>Saturation In Air (% By Vol.):</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Solubility In Water:</b>	Insoluble
<b>Volatile Organic Content:</b>	Not available
<b>Flash Point:</b>	Not applicable

<b>Flammable Limits (% By Vol):</b>	Not available
<b>Autoignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>Odor Threshold:</b>	Not available
<b>Viscosity (Kinematic):</b>	Not applicable
<b>Viscosity (Dynamic):</b>	Not applicable
<b>Flammability:</b>	Not available
<b>Oxidizing Properties:</b>	No

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## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No information available
<b>Stability:</b>	Stable.
<b>Conditions To Avoid:</b>	None known.
<b>Polymerization:</b>	Will not occur
<b>Conditions To Avoid:</b>	None known
<b>Materials To Avoid:</b>	None known
<b>Hazardous Decomposition Products:</b>	carbon monoxide (CO)

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## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Skin, Eyes, Respiratory System.

**Acute toxicity - oral:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Acute toxicity - dermal:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Acute toxicity - inhalation:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Skin corrosion / irritation:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Serious eye damage / eye irritation:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Respiratory sensitization:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Skin sensitization:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Carcinogenicity:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Germ cell mutagenicity:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Reproductive toxicity:** Suspected of damaging fertility or the unborn child

**Specific target organ toxicity (STOT) - single exposure:** Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

**Specific target organ toxicity (STOT) - repeated exposure:** Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

**Aspiration hazard:** Not Classified - Based on physical form, not an expected route of exposure.

## PRODUCT TOXICITY INFORMATION

### ACUTE TOXICITY DATA

oral	rat	Acute LD50	> 2000 mg/kg
dermal	rabbit	Acute LD50	> 2000 mg/kg
Inhalation	rat	Acute LC50 4 hr	> 5 mg/l (Dust/Mist)

### LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	dermal	mild
Acute Irritation	eye	Not irritating

### ALLERGIC SENSITIZATION

Sensitization	Skin	No data
Sensitization	respiratory	No data

### GENOTOXICITY

#### Assays for Gene Mutations

Ames Salmonella Assay	No data
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### OTHER INFORMATION

The product toxicity information above has been estimated.

### HAZARDOUS INGREDIENT TOXICITY DATA

2,6-Di-tert.-butyl-p-kresol (CASRN 128-37-0) has acute oral (rat) and dermal LD50 values of >5000 mg/kg. This substance is slightly irritating to eyes and skin but not a skin sensitizer. Inhalation of dust may cause mild irritation of the respiratory tract. 2,6-Di-tert.-butyl-p-kresol is not mutagenic in in vitro or in vivo test systems. No known significant adverse effects were seen in a reproductive toxicity study with this substance.

p-tert-Butylphenol has oral (rat) and dermal (rabbit) LD50 values of > 2000 mg/kg, respectively. Direct contact with this material cause skin irritation and severe eye damage. Inhalation of vapors or aerosols may cause irritation to the respiratory tract. This material is not expected to cause skin sensitization (allergic skin reactions); however, prolonged or repeated skin contact may result in loss of normal skin pigment. This substance is not genotoxic but may cause impaired fertility in high doses.

## 12. ECOLOGICAL INFORMATION

### TOXICITY, PERSISTENCE AND DEGRADABILITY, BIOACCUMULATIVE POTENTIAL, MOBILITY IN SOIL, OTHER ADVERSE EFFECTS

**Overall Environmental Toxicity:** Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

The ecological assessment for this material is based on an evaluation of its components.

**RESULTS OF PBT AND vPvB ASSESSMENT**

Not determined

**HAZARDOUS INGREDIENT TOXICITY DATA**

Component / CAS No.	Toxicity to Fish
2,6-(Di-t-butyl)-p-cresol (128-37-0)	Not available
4-tert-Butylphenol (98-54-4)	LC50 > 1mg/L - Oncorhynchus mykiss (96hrs) NOEC = 10µg - Pimephales promelas (128d)

Component / CAS No.	Toxicity to Water Flea
2,6-(Di-t-butyl)-p-cresol (128-37-0)	Not available
4-tert-Butylphenol (98-54-4)	EC50 = 4.8 mg/L - Daphnia magna (48hrs) NOEC = 0.73 mg/L - Daphnia magna (21d)

Component / CAS No.	Toxicity to Algae
2,6-(Di-t-butyl)-p-cresol (128-37-0)	EC50 = 6 mg/L - Pseudokirchneriella subcapitata (72h)  EC50 > 0.42 mg/L - Desmodesmus subspicatus (72h)
4-tert-Butylphenol (98-54-4)	EC50 = 14 mg/L - Pseudokirchnerella subcapitata (72hrs) NOEC = 0.32 mg/L - Pseudokirchnerella subcapitata (72hrs)

Component / CAS No.	Partition coefficient
2,6-(Di-t-butyl)-p-cresol (128-37-0)	5.1
4-tert-Butylphenol (98-54-4)	3

**13. DISPOSAL CONSIDERATIONS**

The information on RCRA waste classification and disposal methodology provided below applies only to the product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA "listed hazardous waste" or has any of the four RCRA "hazardous waste characteristics." Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA "listed hazardous waste"; information contained in Section 15 of this SDS is not intended to indicate if the product is a "listed hazardous waste." RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 9 of this SDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. The Company encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. The Company recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. The Company has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

**14. TRANSPORT INFORMATION**

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

**US DOT**

Dangerous Goods? Not applicable/Not regulated

**TRANSPORT CANADA**

Dangerous Goods? Not applicable/Not regulated

**ICAO / IATA**

Dangerous Goods? Not applicable/Not regulated

**IMO**

Dangerous Goods? Not applicable/Not regulated

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**15. REGULATORY INFORMATION****Inventory Information**

**United States (USA):** All components of this product are designated as “Active” on the TSCA Inventory or are not required to be listed.

**Canada:** All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

**European Economic Area (including EU):** When purchased and shipped from an Allnex legal entity based in the EEA (EU or Norway), this product is compliant with the registration of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt and/or registered.

**Australia:** All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on AIIC.

**New Zealand:** This product is approved or exempt under the Hazardous Substances and New Organisms (HSNO) Act.

**China:** All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

**Japan:** All components of this product are included on the Japanese (ENCS and ISHL) inventories or are not required to be listed on the Japanese inventories.

**Korea:** All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory. When purchased from Allnex Korea or Chemart distributor this product is compliant with the ARECs (the Act on the Registration and Evaluation, etc. of Chemical Substances). All its components are either excluded, exempt, pre-notified and/or registered. When purchased from another allnex entity, please contact PSRA-KREACH@allnex.com to check the possibility to be covered by our Only Representative.

**Philippines:** One or more components of this product are NOT included on the Philippine (PICCS) inventory.

**Taiwan:** All components of this product are included in the Taiwan chemical substance inventory or are not required to be listed on the Taiwan chemical substance inventory (TCSI).

**Switzerland:** All components of this product are exempt from the new substance notification requirements for Switzerland (SR 813.11 art. 24-26).

**OTHER ENVIRONMENTAL INFORMATION**

The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product.



Component / CAS No.	%	TPQ (lbs)	RQ(lbs)	S313	TSCA 12B
Phenol 108-95-2	< 0.5	500 10000	1000	Yes	No

## PRODUCT HAZARD CATEGORY UNDER SECTIONS 311 AND 312 OF EPCRA

### Physical Hazards

Not applicable

### Health Hazards

Reproductive toxicity

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## 16. OTHER INFORMATION

### NFPA Hazard Rating (National Fire Protection Association)

Health: 1 - Materials that, under emergency conditions, can cause significant irritation.

Fire: 1 - Materials that must be preheated before ignition can occur.

Instability: 0 - Materials that in themselves are normally stable, even under fire exposure conditions.

**Reasons for Issue:** Revised Section 3

**Date Prepared:** 07/08/2022

**Date of last significant revision:** 07/08/2022

### Component - Hazard Statements

2,6-(Di-*t*-butyl)-*p*-cresol

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

4-*tert*-Butylphenol

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

H361f - Suspected of damaging fertility.

H401 - Toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

### Emergency phone numbers for other regions

#### Asia Pacific

Australia: +61 1800 022 037 (Allnex Australia)

China (PRC): +86(0)532 8388 9090 (NRCC)

India: 000 800 100 7479 (toll free) or +65 3158 1198 (Carechem 24)

Indonesia: 007 803 011 0293 (Carechem 24)

Japan: 0120 015 230 (toll free) (Carechem 24)

Korea: +82 2 3479 8401 (Carechem 24)

Malaysia: +60 3 6207 4347 (Carechem 24)

New Zealand: +64 0800 803 002 (Allnex New Zealand)

Philippines: +63 2 231 2149 (Carechem 24)

Taiwan: +886 2 8793 3212 (Carechem 24)

Vietnam: +84 8 4458 2388 (Carechem 24)

All Others: +65 3158 1074 (Carechem 24)

#### Europe

+44 (0) 1235 239 670 (Carechem 24)

#### Middle East, Africa

+44 (0) 1235 239 671 (Carechem 24)

**Latin America**

Brazil: +55-800-707-7022 (toll free) or +55-11-98149-0850 (Suatrans 24)

Chile: +56 2 2582 9336 (Carechem 24)

Mexico and all others: +52-555-004-8763 (Carechem 24)

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Prepared By: Product Stewardship & Regulatory Affairs Department, <http://www.allnex.com/contact>

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