

Safety Data Sheet – CARBOFEN® NCX

Revision Date: 29-Aug-2019

SECTION 1. IDENTIFICATION

1.1 Product Information

Trade Name: Carbofen® NCX

Description: Resinate

CAS Number / EC Number: Mixture (composition detailed in Section 3).

Relevant Identified Uses: Plasticizer and air entraining agent for concrete, cement and mortar. Anionic bitumen asphalt emulsifier for SS-1 and SS-1H emulsions for paving, micro surfacing, sealing and pavement rejuvenation applications. Tackifier for adhesives and sealants.

1.3 Supplier:

Polytrade Natural Resins US LLC
3111 N University Dr STE 105
Coral Springs, Florida USA 33065
Phone: +1 (800) 451-5152

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SECTION 2. HAZARD(S) IDENTIFICATION

2.1 Classification of Substance or Mixture

This product is labeled according to CLP/GHS Classification (1272/2008):

Skin Irritation, 2	H315 Causes skin irritation.
Eye Irritation, 2B	H320 Causes eye irritation.
Combustible Dust	May form combustible dust concentrations in air.

2.2 Label Elements:



GHS07

Signal Word: Warning

Hazard Statements

H315+H320 Causes skin and eye irritation.
May form combustible dust concentrations in air.

Precautionary, Response and Storage Statements

P202	Do not handle until all safety precautions have been read and understood.
P234	Keep only in original container.
P260	Do not breathe dust/fume/gas/mist/vapor/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection.
P301+P312	IF SWALLOWED: Call doctor if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P312	IF INHALED: Call a doctor if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P314	Get medical attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P402+P404	Store in a dry place. Store in closed container.
P403+P233	Store in well ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

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Information Pertaining to Particular Dangers for Individuals and the Environment:

WARNING! May cause severe eye and skin irritation. Inhalation may cause respiratory track irritation. Static charges generated by emptying package in/near flammable vapors may cause flash fire. May form flammable dust-air mix.

Classification System:

NPA Ratings (Scale 0 – 4)


 Health = 2
 Fire = 1
 Reactivity = 0

HMIS Ratings (Scale 0 – 4)


 Health = 2
 Fire = 1
 Reactivity = 0

SECTION 3. COMPOSITIONS / INFORMATION ON INGREDIENTS

3.2 Chemical Characterization: Mixture

Description: Mixture of the substances listed below with nonhazardous additions.

CAS Number 65997-04-8 / EINECS Number 266-040-8: Fumarated Resin (Dark Resin) - 80.2 – 90.2%

Dangerous Component

Substance	CAS Number	EC Number	Weight %	CLP/GHS Classification (1272/2008)
Sodium Hydroxide	1310-73-2	215-185-5	6.8 – 16.8%	Skin Sensibility: 1 Sub-Category B Eye damage: 1; H 318

SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General First Aid Measures: If you feel unwell, seek medical advice.

After Inhalation: Remove person to fresh air. Get medical attention if nasal, throat or lung irritation develops.

After Skin Contact: Wash thoroughly with plenty of water and soap. Remove contaminated clothing. Get medical attention if irritation persists. Thoroughly wash clothing before reuse.

After Eye Contact: Remove contact lenses. Hold lids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

After Swallowing: Do NOT induce vomiting. Get immediate medical attention.

Information for Doctor: The irritation caused by this product is due to alkalinity. This product contains rosin or rosin derivatives. Rosin and some of its derivatives have been reported to cause allergic skin reaction (sensibilization) in susceptible individuals after repeated or prolonged skin contact.

4.2 Most Important Symptoms and Effects Both Acute and Delayed:

Symptoms/Injuries: Inhalation and skin contact are expected to be primary routes of occupational exposure.

After Inhalation: Dust may cause sneezing and slight nose irritation.

After Skin Contact: Dust may cause slight skin irritation.

After Eye Contact: Dust may cause slight eye irritation with eye redness and/or mechanical injury.

After Swallowing: May cause indigestion. Seek medical attention.

Chronic Symptoms: None known.

4.6 Indication of Any Immediate Medical Attention and Special Treatment Needed: No further relevant information available. But if exposed or concerned, seek medical advice.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable mean: Water spray, dry chemical, foam, carbon dioxide or clean extinguishing agents may be used on fires involving this product.

Unsuitable mean: Not determined.

5.2 Special Hazards Arising from the Substance

Fire Hazard: May form flammable dust-air mixtures.

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Explosion Hazard: None.

Reactivity: Not applicable.

Hazardous Combustion Products: If heated to combustion, the following substances may be formed: carbon monoxide (CO), carbon dioxide (CO₂), aldehydes, carboxylic acids, smoke.

5.3 Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water/fog spray for cooling exposed containers. Remove containers from fire area if this can be done without risk. In case of a major fire and large quantities: evacuate area. Do not breathe fumes from fires.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear when fighting fires involving this product.

Special Protection Needed: No extra special protective equipment required.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Personal Protection: Use personal protective equipment (See detailed information in Section 8.3).

Ventilate area. Avoid dust formation.

6.2 Environmental Precautions:

Avoid dispersion into municipal water, river courses or come in contact with the ground (earth).

6.3 Methods and Material for Containment and Cleaning Up

For Containment: Prevent further leakage or spillage if safe to do so.

Methods for Clean up: If product is not contaminated, scoop into clean containers for use. If product is contaminated, scoop into containers and dispose appropriately. Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with good industrial hygiene and safety practices.

Reference to Other Sections: No dangerous substances are released.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Ground all equipment. Ground operator and pour materials slowly into conductive, grounded chute.

Information about Protection Against Explosions and Fires:

Avoid conditions that generate dust; product may form flammable dust-air mixtures. Avoid emptying package in or near flammable vapors; static charges may cause flash fire. Keep away from heat, flame, sparks and other ignition sources. Spontaneous heating may occur if stored in a non-ventilated area at elevated temperatures.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Storage Conditions: Store in dry, cool and well-ventilated place. Keep away from temperatures above 35°C (95°F), direct sunlight, ignition sources and incompatible materials. Keep container closed when not in use. Store locked up. Control inventory. Rotate stock periodically. Use oldest material first.

Materials for Packaging: Paper bags or plastic bags of 20 kgs (44 lbs) each.

Incompatible materials: Acids. Flame, heat and electric discharge.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of workplace. Ensure adequate ventilation in confined areas. Investigate engineering techniques to reduce exposures to dust. Eliminate ignition sources and prevent build-up of static electrical discharges with proper grounding procedures. Completely isolate and thoroughly clean all equipment, piping or vessels before beginning maintenance or repairs. Keep area clean. Ensure all national/regional regulations are observed.

8.2 Control Parameters

Components with Limit Values that Require Monitoring at the Workplace:

Substance	PEL	REL	TLV
Sodium Hydroxide 1310-73-2	2 mg/m ³	Short-term value: C 2 mg/m ³	Short-term value: C 2 mg/m ³

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8.3 Exposure Controls

General Protective and Hygienic Measures: Avoid contact with eyes, skin and clothing. Avoid breathing dust or fumes. Handle in areas with adequate ventilation. Do not swallow. Avoid contamination of food, beverage or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Respiratory Protection: Appropriate respiratory protection equipment is required when exposure to airborne contaminants may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910.134) and manufacture recommendations.

Hand Protection: Wear impervious gloves. The glove has to be impervious and resistant to product and preparation.

Eye Protection: Use tightly sealed goggles.

Skin and Body Protection: Wear suitable protective clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (at 20 °C / 68 °C):	Powder
Odor:	Pine characteristic odor
Odor Threshold:	No data available.
Color:	Dark reddish-brown color
pH (in solution at 2%, ASTM E 70):	9.5 – 11
Initial Boiling Point / Boiling Range:	Not applicable
Melting Point / Freezing Point:	No data available.
Flash Point:	101 – 107 °C (213.8 – 224.6 °F)
Auto Ignition Temperature:	No data available.
Vapor pressure:	Not applicable.
Vapor density:	Not applicable.
Relative Density (at 25 °C / 77 °C):	0.2 – 0.5 g/cm ³
Evaporation Rate:	Not applicable.
Soluble in:	Water, Acetone, Ethanol
Flammability:	No data available.
Explosion limits:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive under normal conditions.

10.2 Thermal Decomposition / Chemical Stability: Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions: Not anticipated under normal processing, handling and storage conditions.

10.4 Conditions to Avoid: Avoid dust dispersion into the air, keep away from open flames, sparks, smoking, static electricity, electrical discharges and incompatible materials.

10.5 Incompatible Materials: None known.

10.6 Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Fumarated Resin (Dark Resin) 65997-04-8	> 2000 mg/kg (Rat)	-	-
Sodium hydroxide 1310-73-2	140 – 340 mg/kg (Rat)	1350 mg/kg (Rabbit)	-

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Primary Irritant Effect:

On the Skin: Irritant to skin and mucous membranes.

On the Eye: Irritating effect.

Respiratory or Skin Sensitization: No human toxicity studies have been carried out with this product. Based on pH, may cause skin, eye, respiratory or gastrointestinal irritation.

COMPONENT – Sodium hydroxide: can cause severe eye irritation and corrosion with damage to the cornea, conjunctiva and scleral tissues. Can cause burns or corrosion of skin. Inhalation causes severe respiratory irritation, and prolonged exposure can cause necrosis of nasal passages and edema of lungs. Oral ingestion of less than 10 grams is lethal to adult humans. Oral ingestion can cause severe pain, vomiting, diarrhea, collapse and gastric or esophageal perforation, glottic edema, and aspiration pneumonitis can result.

COMPONENT - Fumarated resin (dark resin): reported to cause allergic skin reaction (sensibilization) in susceptible individuals after repeated or prolonged contact.

Additional Toxicological Information

No mutagenicity studies have been carried out with this product.

Carcinogenicity: Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive Toxicity: Not classified.

11.2 Information on Physical, Chemical and Toxicological Effects

Symptoms/injuries: Please refer to Section 4 of this SDS for symptoms.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Information on Ecological Toxicity

LC50 Fish	38.5 mg/L (Exposure time: 96 hrs – Species: Zebra Fish)
NOEC Fish	16.6 mg/L (Exposure time: 96 hrs – Species: Zebra Fish)
EC50 Daphnia	143.6 mg/L WAF (Exposure time: 48 hrs – Species: Daphnia similis)

12.2 Persistence and Degradability: No further relevant information available.

12.3 Bioaccumulative Potential: No further relevant information available.

12.4 Mobility in Soil: No further relevant information available.

12.5 Additional Ecological Information: Avoid dispersion of product in water courses, ground water or sewage system.

Other Adverse Effects: No further relevant information available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Recommendations: Incineration in accordance with applicable regulations is the recommended disposal method. Landfilling in permitted solid or hazardous waste facility, meeting technical regulatory requirements, is a suitable alternative. Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional Information: Packaging must be emptied of its contents and be disposed of properly in accordance with the legal requirements. Paper bags and plastic bags can be recycled.

SECTION 14. TRANSPORT INFORMATION

The shipping descriptions stated herein were prepared in accordance with certain assumptions at the time the SDS was authorized and can vary based on a number of variables that may or may not have been known at the issue date. Note: Please see current BL for most up to date information, including exemptions and exceptional circumstances.

14.1 Substance Identification Number (UN number) Not regulated as dangerous goods.

14.2 Transport by road/rail (ADR/RID): Not regulated as dangerous goods.

14.3 Maritime transport (IMDG code): Not regulated as dangerous goods.

14.4 Inland navigation (ADNR): Not regulated as dangerous goods.

14.5 Air freight (ICAO): Not regulated as dangerous goods.

14.6 Special Precautions for User: Not applicable.

Transport in Bulk According to Annex II of MARPOL73/78 and IBC Code: Not applicable.

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SECTION 15. REGULATORY INFORMATION

15.1 International Inventories

	TSCA	DSL	EINECS / ELINCS	ENCS	IECSC	KECI	PICCS	AICS	NIZoC
Fumarated Resin 65997-04-8	Present	Present	Present	X	Present	X	Present	Present	Present
Sodium Hydroxide 1310-73-2	Present	Present	Present	Present	x	Present	x	x	Present

Legend: TSCA: United States Toxic Substances Control Act Section 8 (b) Inventory

DSL: Canadian Domestic Substances List

EINECS / ELINCS: European Inventory of Chemical Substances

ENCS: Japan Existing and New Chemical Substances

IECSC: China Inventory of Existing Chemical Substances

KECI: Korean Existing and Evaluated Chemical Substances

PICCS: Philippines Inventory of Chemicals and Chemical Substances

AICS: Australian Inventory of Chemical Substances

NIZoC: New Zealand Inventory

EU regulations: Directive 96/82/EC on the control of major-accident hazards involving dangerous substances (Störfall-Verordnung). Comment Annex I, part 1 + 2: not mentioned. For any resulting decomposition products see chapter 10.
Germany National Regulations: Water hazard class, Class 1. Identification No. 5085. Source Classification according to Annex 3.

15.2 US Regulations

Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

SARA 350 (extremely hazardous substances): None of the ingredients is listed.

SARA 313 (specific toxic chemical listings): This product does not contain any chemicals subject to the reporting requirements under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372.

SECTIONS 302/304: This product is not an Extremely Hazardous Substance subject to reporting under 40CFR372.

SECTION 311 and 312:

HC-1 Acute health hazard

HC-3: Fire hazard.

CERCLA

Chemical Name	Hazardous Substances RQs	Reportable Quantity (RQ)
Sodium Hydroxide 1310-73-2	1000 lbs	RQ 1000 lbs final RQ RQ 454 kgs final RQ

California Proposition 65: This product does not contain any Proposition 65 chemicals.

SECTION 16. OTHER INFORMATION, INCLUDING DATE OF LAST REVISION

Data Sources used to Create the Datasheet:

EC Directive 67/548 / EC or 99/45 / EC as amended.

Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP), as amended.

EC Directives 2000/39 / EC, 2006/15 / EC, 2009/161 / EC

Transport regulations according to ADR, RID, IMDG, IATA in the currently valid version.

Product Shelf Life: 3 years.

Publishing Date: 17/Dec/2017

Last Revision Date: 29/Aug/2019

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, belief and experience at the date of publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and it 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 or in any process, unless specified in text.

- End of Safety Data Sheet -