Natro-Cel[™] PEH-A

1: Identification

Product identifier: Other means of identifica Supplier:

Product identifier:	Natro-Cel™ PEH-A
Other means of identification:	Paraffin wax on silicon dioxide
Supplier:	NATROCHEM, Inc.
	P.O. Box 1205
	Savannah, GA 31402-1205
	912-236-4464
Recommended use:	Polymer additive, process aid
Restrictions on use:	Not applicable.
Emergency phone number:	CHEMTREC (USA) 800-424-9300
	CHEMTREC (Int'l) 202-483-7616

2: Hazard(s) identification

OSHA/HCS status:	
OSHA/HCS status:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
GHS classification:	Not classified.
GHS label elements	
Signal word:	WARNING
Symbol(s):	None.
Hazard statements:	
Hazards not otherwise classified:	May form combustible dust concentrations in the air.
Precautionary statements:	
Prevention:	Avoid breathing dust/vapours.
	Do not get in eyes, on skin, or on clothing.
	Do not eat, drink or smoke when using this product.
	Avoid release to the environment.
Response:	IF ON SKIN (or hair): Wash with plenty of soap and water. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses if present and easy to do – continue rinsing. IF exposed or concerned: Call a POISON CENTER/ doctor if you feel unwell.
	In case of fire: Use appropriate media for surrounding fire to extinguish.
Storage:	Store in a dry place. Store in a closed container.

Disposal:Dispose of contents/container in accordance with applicable
regulations.Supplemental information:Not applicable.

3: Composition

Substance/mixture:

Mixture

Ingredient	Synonyms	CAS number	Concentration (%)
Paraffin waxes and		8002-74.2	70-74
hydrocarbon waxes			
Silica, amorphous, precipitated,		112926-00-8	26-30
and gel			

Contains no detectable crystalline silica (detection limit <0.01% by weight)

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4: First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM, OR PHYSICIAN immediately; have SDS information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed.

Potential acute health effects

Eye contact:	No significant irritation expected other than possible mechanical
	irritation.

Inhalation:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat, and lungs.
Skin contact:	Prolonged or repeated contact may dry skin and cause irritation.
Ingestion:	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact:	Adverse symptoms may include the following: Irritation
	Redness
Inhalation:	Adverse symptoms may include the following:
	Coughing
	Respiratory tract irritation
Skin contact:	Adverse symptoms may include the following:
	Dryness
Ingestion:	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	Treat symptomatically. Contact poison treatment specialist
	immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.
Protection of first-aiders:	No action shall be taken involving any personal risk or without
	suitable training.

See toxicological information (Section 11)

5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical:	Product forms a slippery surface when combined with water.
Hazardous thermal	In the event of a fire, hazardous decomposition products may
decomposition products:	include:
	Carbon monoxide
	Carbon dioxide
Special protective actions for firefighters:	No action shall be taken involving any personal risk or without proper training.
Special protective	Firefighters and others who may be exposed to products of
equipment for firefighters:	combustion should wear full firefighting turn out gear (full bunker gear) and self-contained breathing apparatus (SCBA) operated in pressure-demand mode (MSHA/NIOSH approved or equivalent).

6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

A	
For non-emergency	Keep unnecessary and unprotected personnel from entering. Do
personnel:	not touch or walk through spilled material. Product forms slippery
	surface when combined with water. No action shall be taken
	involving any personal risk or without suitable training.
For emergency responders:	If specialized clothing is required to deal with the spillage, take
	note of any information in Section 8 on suitable and unsuitable
	materials. See also the information immediately above in "For non-
	emergency personnel".
Environmental precautions:	Avoid release to sewers, waterways, soil, or air. Inform the
	relevant authorities if the product has caused environmental
	pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up

Small spill:	Avoid generating dust. Vacuum or sweep up material and place in a
	designated, labeled waste container.
Large spill:	Avoid generating dust. Vacuum or sweep up material and place in a
	designated, labeled waste container.
o	

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7: Handling and storage

Precautions for safe handling

Protective measures: Advice on general occupational hygiene:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. When transferring material into flammable solvents, use proper grounding to avoid electrical sparks. Avoid alteration of product properties before use. Calcining (which may result in crystalline silica formation) or mixing with additives may alter toxicological properties.
Conditions for safe storage, including any incompatibilities:	See also Section 8 for additional information on hygiene measures. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well- ventilated area away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers.

8: Exposure controls/personal protection

Control parameters

Ingredient	OSHA PEL	ACGIH TLV	NIOSH REL
Paraffin waxes and	Not available.	TLV 2 mg/m ³	Not available.
hydrocarbon waxes			
Recommended monitoring	If this product contains ingredients with exposure limits, personal,		
procedures:	workplace atmosphere, or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
Appropriate engineering controls:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.		
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure that they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to process equipment will be necessary to reduce emissions to acceptable levels.		

Occupational exposure limits

Individual protection measures

Hygiene measures:	Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: splash goggles.
Skin protection	
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. When handling hot material, wear heat-resistant gloves that are able to withstand the temperature of molten product.
Body protection:	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.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the

risks involved and should be approved by a specialist before handling this product. Respiratory protection: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, airpurifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

9: Physical and chemical properties

Appearance	
Physical state:	Powder, solid, or granular solid.
Color:	White to off-white.
Odor:	Slight.
Odor threshold:	Not available.
pH:	Not available.
Melting/freezing point:	Not available.
Boiling point and range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability:	Not available.
Flammability or explosive	Not available.
limits:	
Vapor pressure:	Not available.
Vapor density:	Not available.
Relative density:	Not available.
Solubility:	Negligible in water.
Partition coefficient: n-	Not available.
octanol/water:	
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not applicable.

10: Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	This product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	High temperature (>800°C) treatment (calcining). Avoid alteration of product properties before use. Calcining (which may result in crystalline silica formation) or mixing with additives may alter toxicological properties. Avoid generating dust.

Incompatible materials:	Refer to protective measures listed in Sections 7 and 8 . Reactive or incompatible with the following materials: Acids Oxidizing materials
	Strong alkalis Amines
Hazardous decomposition products:	In the event of a fire, hazardous decomposition products may include: Carbon monoxide Carbon dioxide

11: Toxicological information

Information on toxicological effects

Acute toxicity

Conclusion/summary: No known significant effects or critical hazards.

Conclusion/summary:		vn signi	ficant effects or	critical nazarus.	
Ingredient	Result		Species	Dose	Exposure
Paraffin waxes and	LD ₅₀ derr	nal	Rabbit	> 3,600	-
hydrocarbon waxes				mg/kg	
	LD ₅₀ oral		Rat	> 5,000	-
				mg/kg	
Irritation/corrosion	1		•		•
Conclusion/summary					
Skin:	Not irrit	ating (R	abbit)		
Eyes:	Not irrit	ating (R	abbit)		
Respiratory:	No knov	vn signi	ficant effects or	critical hazards.	
Sensitization		-			
Conclusion/summary:	Guinea	oig: not	sensitizing; Max	imisation test	
Mutagenicity:		C	0.		
Conclusion/summary:	Not mutagenic.				
Carcinogenicity		C			
Conclusion/summary:	No knov	vn signi	ficant effects or	critical hazards.	
Classification		Ũ			
Ingredient	OSHA	IARC	NTP		
Silica, amorphous,	-	3	-		
precipitated, and gel					
Carcinogen classificat	ion code:		•		
IARC: 1,	2A, 2B, 3, 4				
NTP: [K	nown/Reasona	bly antic	ipated] to be a hum	an carcinogen	
OSHA: +					
Not listed/r	egulated: -				
Reproductive toxicity					
Conclusion/summary:	Rat; OEC	CD Test	guideline 421: N	OAEL >= 1,000 n	ng/kg
<u>Teratogenicity</u>					
Conclusion/summary:	Rat; OECD Test guideline 414: NOAEL (teratogen) >= 1,000 mg/kg				
	NOAEL (maternal) >= 2,000 mg/kg				
Specific target organ toxicity	(single exp	osure)			

Not available.	
Specific target organ toxicity (re	epeated exposure)
Mouse; OECD Test guideline	453: NOAEL >= 150 mg/kg
Target organs	Contains material which may cause damage to the following
	organs: upper respiratory tract, eyes.
Aspiration hazard	
Not available.	
Information on the likely routes	Routes of entry anticipated: oral, dermal, inhalation.
of exposure:	

Potential acute health effects

Eye contact:	No significant irritation expected other than possible mechanical
	irritation.
Inhalation:	Exposure to airborne concentrations above statutory or
	recommended exposure limits may cause irritation of the nose,
	throat, and lungs.
Skin contact:	Prolonged or repeated contact may dry skin and cause irritation.
Ingestion:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact:	Adverse symptoms may include the following:
	Irritation
	Redness
Inhalation:	Adverse symptoms may include the following:
	Coughing
	Respiratory tract irritation
Skin contact:	Adverse symptoms may include the following:
	Dryness
Ingestion:	No specific data.

Delayed and immediate effects and also chronic effects from short- and longterm exposure

Conclusion/summary: An epidemiological study was conducted which included 165 precipitated silica workers who had been exposed an average time of 8.6 years. Of these 165 workers, 44 had been exposed for an average of 18 years. No adverse effects were noted in complete medical examinations (including chest roentgenograms) of these workers. Pulmonary function decrements were correlated only with smoking and age but not with the degree or duration of dust exposures. Laboratory studies have also been conducted in small animals via inhalation of levels of precipitated silica dust of up to 126 mg/m³ per periods from six months to two years. Although precipitated silica was temporarily deposited in animals' lungs, most of the deposited material was cleared soon after the dust exposure ended. The results of all studies performed by, or known to, PPG indicated a very low order of pulmonary activity for synthetic precipitated silicas. PPG recommends that persons with breathing problems or lung disease should not work in dusty areas

unless a physician approves and certifies their fitness to wear respiratory protection.

Short-term exposure

Potential immediate	No significant irritation expected other than possible mechanical
effects	irritation.
Potential delayed effects	Prolonged or repeated contact may dry skin and cause irritation.

Long-term exposure

Potential immediate	Repeated or prolonged inhalation of dust may lead to chronic
effects	respiratory irritation.
Potential delayed effects	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Potential chronic health effects

General:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates Not available.

12: Ecological information

Toxicity

Ingredient	Result	Species	Exposure
Silica, amorphous,	NOEC > 1000 ppm	Daphnia – <i>daphnia magna</i>	24 hours
precipitated, and	Acute NOEC > 10000 ppm	Fish	96 hours static
gel	fresh water		
	Acute NOEC > 10000 ppm	Fish – <i>brachydanio rerio</i>	4 days static
Paraffin waxes and	Acute LL50 > 100 mg/L	Fish – <i>pimephales</i>	96 hours
hydrocarbon waxes		promelas	
	Acute LL50 > 10,000 mg/L	Aquatic invertebrates	
	Acute NOEL >= 100 mg/L	Algae –	72 hours
		pseudokirchneriella	
		subcapitata	
	Chronic NOEL > 100 mg/L	Fish – <i>pimephales</i>	
		promelas	
	Chronic NOEL > 10,000 mg/L	Aquatic invertebrates –	4 days OECD
		gammarus pulex	202

Persistence and degradability

Ingredient Aquatic half-life Photolysis Biodegradability
--

Silica, amorphous, precipitated, and gel	-	-	Not readily
Paraffin waxes and	-	-	Inherently
hydrocarbon waxes			biodegradable

Bioaccumulative potential

Ingredient	LogPow	BCF	Potential
Silica, amorphous, precipitated, and gel	-	0	low

Mobility in soil

Soil/water partition coefficient (K_{oc}): Other adverse effects: Not available.

No known significant effects or critical hazards.

13: Disposal considerations

Disposal methods:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions, and any by-products should at all times comply with the requirements of environmental
	protection and waste disposal legislation and any regional local
	authority requirements.
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Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Refer to Sections 6, 7, and 8 for additional information on accidental release measures, handling and storage, and exposure controls.

•			
	DOT	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping	-	-	-
name			
Transport hazard	-	-	-
class(es)			
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Marine pollutant	Not applicable.	Not applicable.	Not applicable.
substances			
Additional information	-	-	-

14: Transport information

Special precautions for user:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according toNot available.Annex II of MARPOL 73/78 andthe IBC code:

15: Regulatory information

Inventory status

United States inventory (TSCA 8b):	All components are listed or exempted.
-	
Australia inventory (AICS):	All components are listed or exempted.
Canada inventory (DSL):	All components are listed or exempted.
China inventory (IECSC):	All components are listed or exempted.
Europe inventory (REACH):	All components are listed or exempted.
Japan inventory (ENCS):	Please contact your supplier for information on the inventory status
	of this material.
Korea inventory (KECI):	All components are listed or exempted.
New Zealand inventory (NZIoC):	All components are listed or exempted.
Philippines inventory (PICCS):	All components are listed or exempted.

United States

US Federal regulations:

SARA Title III

Section 302 – Extremely Hazardous Chemicals:

The components in this product are either not SARA Section 302 regulated or are regulated but present in negligible concentrations.

Section 311/312 – Hazard Categories:

The components in this product are either not SARA Section 311/312 regulated or are regulated but present in negligible concentrations.

Section 313 – Toxic Chemicals:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – Reportable Quantity (RQ)

The components of this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

US State regulations:

New Jersey Right to Know:

No components are subject to the New Jersey Right to Know Act.

Pennsylvania Right to Know:

No components are subject to the Pennsylvania Right to Know Act.

California Prop. 65:

No components are subject to California Prop. 65.

16: Other information

Hazardous Material Identification System (USA)

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	

Caution: HMIS[®] ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS[®] ratings are not required on SDs under 29 CFR 1901.1200, the preparer may choose to provide them. HMIS[®] ratings are to be used with a fully implemented HMIS[®] program. HMIS[®] is a registered mark of the Nation Paint & Coatings Association (NPCA). HMIS[®] materials may be purchased exclusively from J.J.Keller 800-327-6868.

* - chronic effects

The customer is responsible for determining the PPE code for this material.

Key to abbreviations:

ATE	Acute toxicity estimate
BCF	Bioconcentration factor
GHS	Globally Harmonized System of classification and labeling of chemicals
ΙΑΤΑ	International Air Transport Association
IBC	Intermediate bulk container
IMDG	International Maritime Dangerous Goods
LogPow	Logarithm of the octanol/water partition coefficient
MARPOL 73/78	International convention for the Prevention of Pollution from Ships,
	1973, as modified by the Protocol of 1978. (MARPOL = marine pollution)
UN	United Nations

Disclaimer:

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