Natro-Cel[™] P875-A

1: Identification

Product identifier: Other means of identification: Supplier:	Natro-Cel [™] P875-A Proprietary polythioeth NATROCHEI P.O. Box 12 Savannah, C 912-236-44	M, Inc. 05 GA 31402-1205
Recommended use:	Industrial applications a	and resins.
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:	This chemical is considered hazar	dous by the 2012 OSHA Hazar	
	Communication Standard (29 CFR 1910.1200).		
GHS classification:	Hazard Classification	Category	
	SKIN IRRITATION	Category 2	
	EYE IRRITATION	Category 2A	
	SPECIFIC TARGET ORGAN	Category 3	
	TOXICITY (SINGLE EXPOSURE)		
	Respiratory tract irritation)		
GHS label elements			
Signal word:	WARNING		
Symbol(s):			
Hazard statements:	Causes skin irritation		
Hazard statements:	Causes serious eye irritation		
	Causes serious eye irritation May cause respiratory irritation	entrations in the sir	
Hazard statements: Hazards not otherwise classified:	Causes serious eye irritation	entrations in the air.	
Hazards not otherwise	Causes serious eye irritation May cause respiratory irritation	entrations in the air.	
Hazards not otherwise classified:	Causes serious eye irritation May cause respiratory irritation		
Hazards not otherwise classified: Precautionary statements:	Causes serious eye irritation May cause respiratory irritation May form combustible dust conc	mist/vapours/spray.	
Hazards not otherwise classified: Precautionary statements:	Causes serious eye irritation May cause respiratory irritation May form combustible dust conc Avoid breathing dust/fume/ gas/	mist/vapours/spray. clothing.	
Hazards not otherwise classified: Precautionary statements:	Causes serious eye irritation May cause respiratory irritation May form combustible dust conc Avoid breathing dust/fume/ gas/ Do not get in eyes, on skin, or on	mist/vapours/spray. clothing. ndling.	

Response:	 IF ON SKIN (or hair): Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. 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 dry chemical, CO ₂ , water spray (fog), or foam to extinguish.
Storage:	Store locked up. Store in a dry place. Store in a closed container.
Disposal:	Dispose of contents/container in accordance with applicable regulations.
Supplemental information:	Emits toxic fumes when heated.

3: Composition

Substance/mixture:

Mixture

Ingredient	Synonyms	CAS number	Concentration (%)
Proprietary polythioether		Not available.	70-74
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 hea	lth effects
Eye contact:	Causes serious eye irritation.
Inhalation:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose,
Chin contract.	throat, and lungs.
Skin contact: Ingestion:	Prolonged or repeated contact may dry skin and cause irritation. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact:	Adverse symptoms may include the following:
	Pain or irritation
	Redness
	Watering
Inhalation:	Adverse symptoms may include the following:
	Coughing
	Respiratory tract irritation
Skin contact:	Adverse symptoms may include the following:
	Dryness
	Irritation
	Redness
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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (fog), or foam.
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from	Product forms a slippery surface when combined with water.
the chemical:	Fine dust clouds may form explosive mixtures with air.
Hazardous thermal	No specific data.
decomposition products:	
Special protective actions for	Promptly isolate the scene by removing all persons from the
firefighters:	vicinity of the incident if there is a fire. 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) with a full face piece operated in pressure-demand mode (MSHA/NIOSH approved or equivalent).

6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

For non-emergency	Evacuate surrounding areas. Keep unnecessary and unprotected
personnel:	personnel from entering. Do not touch or walk through spilled
	material. Product forms slippery surface when combined with
	water. Avoid breathing vapor or dust. Provide adequate
	ventilation. Wear appropriate respirator when ventilation is
	inadequate. 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.

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:	Put on appropriate personal protective equipment (see Section 8).
Advice on general	Eating, drinking, and smoking should be prohibited in areas where
occupational hygiene:	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

Occupational exposure limits

None.	
Recommended monitoring procedures:	If this product contains ingredients with exposure limits, personal, 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.

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, air- purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

9: Physical and chemical properties

<u>Appearance</u>	
Physical state:	Powder, solid, or granular solid.
Color:	White to off-white.
Odor:	Not available.
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 limits:	Not available.
Vapor pressure:	Not available.
Vapor density:	Not available.
Relative density:	Not available.
Solubility:	Not available.
Partition coefficient: n- octanol/water:	Not available.
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), which may result in crystalline silica formation.
	Avoid alteration of product properties before use. Calcining or mixing with additives may alter toxicological properties. Avoid generating dust.
	Refer to protective measures listed in Sections 7 and 8.
Incompatible materials:	Reactive or incompatible with the following materials: Acids
	Oxidizing materials
	Strong alkalis
Hazardous decomposition products:	No specific data.

11: Toxicological information

Information on toxicological effects

Acute toxicity	
Conclusion/summary:	No known significant effects or critical hazards.
Irritation/corrosion	
Conclusion/summary	
Skin:	No known significant effects or critical hazards.
Eyes:	No known significant effects or critical hazards.
Respiratory:	No known significant effects or critical hazards.
<u>Sensitization</u>	
Conclusion/summary:	
Skin:	No known significant effects or critical hazards.
Respiratory:	No known significant effects or critical hazards.

M	utagenicity:				
	Conclusion/summary:	No known significant effects or critical hazards.			
Ca	<u>rcinogenicity</u>				
	Conclusion/summary:	No known significant effects or critical hazards.			
	Classification				
	Ingredient	OSHA	IARC	NTP	
	Silica, amorphous,	-	3	-	
	precipitated, and gel				
	Carcinogen classificat	ion code:	•		
		2A, 2B, 3, 4			
	NTP: [K OSHA: +	nown/Reasona	ably antic	ipated] to be a human carcinogen	
	Not listed/r	egulated: -			
Re	productive toxicity	-8			
	Conclusion/summary:	No know	n signif	icant effects or critical hazar	ds.
	ratogenicity				
	Conclusion/summary:	No know	n signif	icant effects or critical hazar	ds.
	ecific target organ toxicity		-	· · · · · · · · · · · · · · · · · · ·	
	lame	10			Category
	roprietary polythioether				Category 3
L	ecific target organ toxicity	(repeated e	vnosur	e)	euregory o
<u></u>	Not available.	(iepeated e		<u>cr</u>	
Та	rget organs	Contains	materi	al which may cause damage t	to the following
<u></u>	iget organs			espiratory tract, eyes.	to the following
٨с	piration hazard	organs. (иррсти		
	pration hazard				
	mation on the likely	Routes o	fontry	anticipated: oral, dermal, inh	alation
	es of exposure:	Routes o	in chích y	anticipated. oral, dermal, init	
Tout					
Pot	ential acute health e	ffects			
Ey	e contact:	No signif	icant ir	ritation expected other than	possible mechanical
		irritation	ı.		
Inl	nalation:	Exposure to airborne concentrations above statutory or			
		recomm	ended e	exposure limits may cause irri	itation of the nose,
		throat, a	nd lung	S.	
Sk	in contact:	Prolonged or repeated contact may dry skin and cause irritation.			
Ing	gestion:	No known significant effects or critical hazards.			
C	who we we let e d to th	o mbruei eo	laka	nicol and tonicologia	al abawa atawiati aa
				mical, and toxicologica	
Ey	e contact:			ms may include the following	2.
		Irritation	1		
		Redness			
Inl	nalation:			ms may include the following	g:
		Coughing	-		
		•		t irritation	
Sk	in contact:	Adverse	sympto	ms may include the following	g:
		Dryness			
Ing	gestion:	No speci	fic data		

Delayed and immediate effects and also chronic effects from short- and long-term 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</i>	24 hours
precipitated, and		magna	
gel	Acute NOEC > 10000 ppm	Fish	96 hours static
	fresh water		
	Acute NOEC > 10000 ppm	Fish – brachydanio rerio	4 days static

Persistence and degradability

Ingredient	Aquatic half-life	Photolysis	Biodegradability
Silica, amorphous,	-	-	Not readily
precipitated, and			
gel			

Bioaccumulative potential

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

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.

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.

14: Transport information

	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 substances	Not applicable.	Not applicable.	Not applicable.
Additional 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 to Annex II of MARPOL 73/78 and the IBC code:	Not available.		

15: Regulatory information

Inventory status

United States inventory (TSCA	All components are listed or exempted.
8b):	
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	All components are listed or exempted.
(NZIOC):	
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.

Ingredient	Acute	Chronic	Fire	Pressure	Reactive
Proprietary	Yes	No	No	No	No
polythioether					

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:

Ingredient	NJ RTK	MA RTK	PN RTK	CA Prop. 65
Silica, amorphous,	Listed	-	-	-
precipitate, and gel				

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:

5	
ATE	Acute toxicity estimate
BCF	Bioconcentration factor
GHS	Globally Harmonized System of classification and labeling of chemicals
IATA	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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