## Natro-Cel™ 97-A-75

#### 1: Identification

**Product identifier:** Natro-Cel™ 97-A-75

Other means of identification: Heavy paraffinic distillate on silicon dioxide

Supplier:

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NATROCHEM, Inc. P.O. Box 1205

Savannah, GA 31402-1205

912-236-4464

**Restrictions on use:** Process oil Not applicable.

Emergency phone number: CHEMTREC (USA) 800-424-9300 CHEMTREC (Int'l) 202-483-7616

## 2: Hazard(s) identification

GHS classification: Carcinogenicity – Category 1B

Toxic to reproduction (unborn child) – Category 2

Specific target organ toxicity (repeated exposure)(adrenal, bone marrow, kidneys, liver, lymphatic system, stomach, thymus) –

Category 1

#### **GHS** label elements

Signal word: Symbol(s):





**Hazard statements:** May cause cancer.

Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated exposure (adrenal, bone marrow, kidneys, liver, lymphatic system, stomach,

thymus).

Hazards not otherwise

classified:

May form combustible dust concentrations in the air.

**Precautionary statements:** 

**Prevention:** Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Do not breathe dust/vapours.

Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.

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 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<sub>2</sub>, water spray (fog), or foam 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 (%)
Extracts (petroleum), heavy		64742-04-7	73-77
paraffinic distillate solvent			
Silica, amorphous, precipitated,		112926-00-8	23-27
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:** Slightly irritating to the eyes. May cause tearing, burning sensation,

and redness.

**Inhalation:** Vapours (at elevated temperatures) and/or dust formed may be

irritating to eyes, nose, throat, upper respiratory tract, and lungs.

**Skin contact:** May cause skin dryness, irritation, and defatting of the skin.

**Ingestion:** Gastrointestinal tract irritation with possible nausea, vomiting, and

diarrhea.

#### 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

Use dry chemical, CO<sub>2</sub>, water spray (fog), or foam.

media:

Unsuitable extinguishing

Do not use a solid water stream as it may scatter and spread fire.

media:

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

Other unidentified organic compounds

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 but

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

For non-emergency

personnel:

Keep unnecessary and unprotected personnel from entering. Do 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.

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**

#### Occupational exposure limits

Ingredient	OSHA PEL	ACGIH TLV	NIOSH REL		
Polycyclic aromatic	0.2 mg/m <sup>3</sup> TWA	0.2 mg/m <sup>3</sup> TWA	-		
hydrocarbons	(benzene soluble)	(benzene soluble)			
Recommended monitoring	If this product contains ingredients with exposure limits, personal,				
procedures:	workplace atmospher	re, or biological monito	ring may be required		
	to determine the effe	ectiveness of the ventila	ition or other control		
	measures and/or the	necessity to use respira	atory 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	Good general ventilation should be sufficient to control worker				
controls:	exposure to airborne contaminants.				
<b>Environmental exposure</b>	Emissions from ventilation or work process equipment should be				
controls:	checked to ensure that they comply with the requirements of				
	environmental protec	ction legislation. In som	e cases, fume		
	scrubbers, filters, or engineering modifications to process				
equipment will be necessary to reduce emissions to acceptable					

## **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
Eye/face protection:	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. 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

levels.

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. Not available. pH: 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:** Insoluble in hot and cold 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** Under normal conditions of storage and use, hazardous reactions

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:

In the event of a fire, hazardous decomposition products may

include:

Carbon monoxide Carbon dioxide

Other unidentified organic compounds

## 11: Toxicological information

## Information on toxicological effects

#### **Acute toxicity**

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

,,				
Ingredient	Result	Species	Dose	Exposure
Extracts (petroleum),	LD <sub>50</sub> oral	Rat	> 5000 mg/kg	-
heavy paraffinic distillate	LD <sub>50</sub> dermal	Rabbit	> 3000 mg/kg	-
solvent	LC <sub>50</sub> inhalation	Rat	> 5 mg/L	4 hours

#### **Irritation/corrosion**

**Conclusion/summary** 

**Skin:** Mild irritant. May cause skin dryness or cracking.

**Eyes:** May cause slight transient irritation.

**Respiratory:** No known significant effects or critical hazards.

Sensitization

**Conclusion/summary:** 

**Skin:** No known significant effects or critical hazards. **Respiratory:** No known significant effects or critical hazards.

**Mutagenicity:** 

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

Carcinogenicity

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

Classification

Ingredient	OSHA	IARC	NTP
Silica, amorphous,	-	3	-
precipitated, and gel			
Extracts (petroleum), heavy	-	1	-
paraffinic distillate solvent			

#### Carcinogen classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: [Known/Reasonably anticipated] to be a human carcinogen

OSHA: +

Not listed/regulated: -

#### Reproductive toxicity

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

**Teratogenicity** 

**Conclusion/summary:** Possible risk of harm to the unborn child. May cause increase in

fetal deaths, reduced fetal weight, and skeletal malformations.

#### Specific target organ toxicity (single exposure)

Not available.

#### **Specific target organ toxicity (repeated exposure)**

Not available.

<u>Target organs</u> Adrenal, bone marrow, kidneys, liver, lymphatic system, stomach,

thymus.

Aspiration hazard Not expected to be an aspiration hazard.

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:** Slightly irritating to the eyes. May cause tearing, burning

sensation, and redness.

Inhalation: Vapours (at elevated temperatures) and/or dust formed may be

irritating to eyes, nose, throat, upper respiratory tract, and lungs.

**Skin contact:** May cause skin dryness, irritation, and defatting of the skin. **Ingestion:** Gastrointestinal tract irritation with possible nausea, vomiting,

and diarrhea.

# 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:

Carcinogenicity:

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Mutagenicity:

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
Extracts	Acute EC50 18.8 mg/L	Algae	96 hours
(petroleum), heavy	Acute EC50 35.9 mg/L	Daphnia	48 hours
paraffinic distillate	Acute EC50 1000 mg/L	Fish	96 hours
solvent	Chronic NOEL0.1-1 mg/L	Daphnia – <i>daphnia</i>	-
		magna	

Persistence and degradability

Ingredient	Aquatic half-life	Photolysis	Biodegradability
Silica, amorphous, precipitated, and gel	-	-	Not readily
Extracts	-	-	Not readily
(petroleum), heavy paraffinic distillate solvent			,

**Bioaccumulative potential** 

Ingredient	LogP <sub>ow</sub>	BCF	Potential
Silica, amorphous, precipitated, and gel	-	0	low
Extracts	≥ 4	-	Potentially
(petroleum), heavy paraffinic distillate			bioaccumulative
solvent			

## **Mobility in soil**

Soil/water partition Not available. coefficient (K<sub>oc</sub>):

**Other adverse effects:** 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	IATA
UN number	Not regulated.	3077	Not regulated.
UN proper shipping name	-	Environmentally	Environmentally
		hazardous	hazardous
		substance, solid,	substance, solid,
		n.o.s. (Extracts	n.o.s. (Extracts
		[petroleum], heavy	[petroleum], heavy
		paraffinic distillate	paraffinic distillate
		solvent). Marine	solvent).
		pollutant (Extracts	
		[petroleum], heavy	
		paraffinic distillate	
		solvent).	
Transport hazard class(es)	-	9	9
Packing group	-	III	III
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	-	Yes.	Yes.
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):

Canada inventory (DSL):

China inventory (IECSC):

Europe inventory (REACH):

All components are listed or exempted.

All components are listed or exempted.

All components are listed or exempted.

Japan inventory (ENCS): Not determined.

**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.

#### 16: Other information

#### **Hazardous Material Identification System (USA)**



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 SDSs 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.

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

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

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<sup>\* -</sup> chronic effects