# Natro-Cel™ 1312

## 1: Identification

**Product identifier:** Natro-Cel<sup>™</sup> 1312

Other means of identification: Acrylonitrile/butadiene polymer on calcium silicate

Supplier:

P Sa

NATROCHEM, Inc. P.O. Box 1205

Savannah, GA 31402-1205

912-236-4464

**Recommended use:** Polymer/adhesive compounding

**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: 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: None.

Hazards not otherwise

classified:

May form combustible dust concentrations in the air.

**Precautionary statements:** 

**Prevention:** Avoid breathing dust/fume/ gas/mist/vapours/spray.

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 extinguishing media suitable for class A fires 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 (%)
Acrylonitrile/butadiene polymer		proprietary	70-74
Calcium silicate		1344-95-2	26-30
4-vinyl cyclohexene		100-40-3	<0.1
Acrylonitrile		107-13-1	<10 ppm

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** Use an extinguishing agent suitable for class A fires. CO<sub>2</sub> is

media: generally not recommended for class A fires as a lack of cooling

capacity may result in reignition.

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

Other unidentified organic compounds

Special protective actions for

firefighters:

proper training.

**Special protective** 

equipment for firefighters:

Firefighters and others who may be exposed to products of combustion should wear full firefighting turn out gear (full bunker

No action shall be taken involving any personal risk or without

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** 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.

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

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.

See also **Section 8** for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities:

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
4-vinyl cyclohexene	Not established.	0.1 ppm TWA	Not available.
Acrylonitrile	2 ppm TWA	2 ppm TWA	Not available.

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:

Environmental exposure controls:

Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

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. 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** 

**Eye/face 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: Tan to brown. Odor: Sharp mercaptan. 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:Not available.Partition coefficient: n-Not available.

octanol/water:

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not applicable.

# 10: Stability and reactivity

**Reactivity:** Hazardous polymerization will not occur.

**Chemical stability:** This product is stable when properly handled and stored.

**Possibility of hazardous**None known.

reactions:

**Conditions to avoid:** 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 4-vinyl cyclohexene Rat  $3080 \,\mu\text{L/kg}$ LD<sub>50</sub> oral LD<sub>50</sub> dermal rabbit 20 mL/kg acrylonitrile LD<sub>50</sub> oral 78 mg/kg rat LD<sub>50</sub> dermal rabbit 250 mg/k LC<sub>50</sub> inhalation rat 425 mg/kg 4 h

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.

**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
Acrylonitrile/butadiene polymer	-	-	-
4-vinyl cyclohexene	-	2B	Reasonably anticipated
acrylonitrile	-	2B	Reasonably anticipated

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:** No known significant effects or critical hazards.

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

Not available.

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

Not available.

<u>Target organs</u> Contains material which may cause damage to the following

organs: upper respiratory tract, eyes.

<u>Aspiration hazard</u>

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

#### **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**

No information available.

## 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.	Not regulated.	Not regulated.
UN proper shipping	-	-	-
name			
Transport hazard	-	-	-
class(es)			
Packing group	-	-	-
<b>Environmental hazards</b>	No.	No.	No.
Marine pollutant	Not applicable.	Not applicable.	Not applicable.
substances			
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

Not available.

the IBC code:

## 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):** 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.

#### 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	PA RTK	CA Prop. 65
Acrylonitrile/butadiene	-	-	Listed	-
polymer				
4-vinyl cyclohexene	-	-	-	Listed
Acrylonitrile	-	Listed	-	Listed

### 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

#### **Disclaimer:**

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