# Natro-Cel<sup>™</sup> AL-A-70

## **1: Identification**

Recommended use: Restrictions on use:

**Emergency phone number:** 

Product identifier: Other means of identification: Supplier:

	Natro-Cel <sup>1</sup>	™ AL-A-70	
:	Ammonium salts of alkyl phosphate on silicon dioxide		
		NATROCHE	M, Inc.
	P.O. Box 1205		
		Savannah, (	GA 31402-1205
		912-236-44	64
Mold release agent			
	Not applic	able.	
	CHEMTRE	C (USA)	800-424-9300
	CHEMTRE	C (Int'l)	202-483-7616

## 2: Hazard(s) identification

GHS classification: GHS label elements	Not classified.
Signal word: Symbol(s):	WARNING
Hazard statements:	Causes skin irritation May cause an allergic skin reaction
Hazards not otherwise classified:	Causes serious eye irritation May form combustible dust concentrations in the air.
Precautionary statements:	
Prevention:	Avoid breathing dust. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	<ul> <li>IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse.</li> <li>If skin irritation or rash occurs: get medical attention.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists: get medical attention.</li> <li>IF exposed or concerned: Call a POISON CENTER/ doctor.</li> </ul>

In case of fire: Use appropriate media for surrounding fire to<br/>extinguish.Storage:Store in a dry place. Store in a closed container.Disposal:Dispose of contents/container in accordance with

local/regional/national/international regulations.

## **3: Composition**

Substance/mixtu	ure:
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Mixture

Ingredient	Synonyms	CAS number	Concentration (%)
Neutralized mixed		-	55-70
alkylphosphates			
Alcohols, C12-16		68855-56-1	2-7
n-butanol		71-36-3	0-3
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**

Description of necessary mist and mediates		
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: Inhalation:	Causes serious eye irritation. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat, and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.		
Skin contact:	Causes skin irritation. May cause an allergic skin reaction. Prolonged or repeated contact may dry skin and cause irritation.		
Ingestion:	Irritating to mouth, throat, and stomach.		
Over-exposure signs/symptom			
Eye contact:	Adverse symptoms may include the following:		
	Pain or irritation		
	Watering		
	Redness		
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.		
	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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
Specific treatments:	No specific treatment.		
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.		
See toxicological information (Section 11)			

## 5: Fire-fighting measures

<u>Extinguishing media</u> Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media:	None known.
Specific hazards arising from	No specific fire or explosion hazard. When transferring material
the chemical:	into flammable solvents, use proper grounding to avoid electrical sparks.
Hazardous thermal	Decomposition products may include the following:
decomposition products:	Carbon dioxide
	Carbon monoxide
	Nitrogen oxides

	Phosphorus oxides
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 suitable training.
Special protective	Firefighters should wear appropriate protective equipment and
equipment for firefighters:	self-contained breathing apparatus (SCBA) with a full face-piece
	operated in positive pressure mode.

## **6: Accidental release measures**

#### Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not touch or walk through spilled material. Product		
	forms slippery surface when combined with water. Put on appropriate personal protective equipment.		
For emergency responders:	If specialized clothing is required to deal with the spillage, take note of any information in <b>Section 8</b> on suitable and unsuitable materials. See also the information immediately above in "For non- emergency personnel".		
Environmental precautions:	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:	Vacuum or sweep up material and place in a designated, labeled		
Large spill:	waste container. 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 <b>Section 8</b> ). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.
Advice on general occupational hygiene:	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

Conditions for safe storage, including any incompatibilities:

crystalline silica formation) or mixing with additives may alter toxicological properties.

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 wellventilated 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

Components with limit value	es that require monitoring at the workplace:
n-butanol	· · · · · · · · · · · · · · · · · · ·
OSHA 1994	TWA: 50 ppm; CEIL: 50 ppm
ACGIH	CEIL: 50 ppm, 152 mg/m <sup>3</sup>
RQMT	STEL: 150 ppm; CEIL: 152 ppm
OSHA 1989	CEIL: 150 mg/m <sup>3</sup>
ACGIH TLV	TWA: 20 ppm 8 hours
NIOSH REL	CEIL: 150 mg/m <sup>3</sup> , 50 ppm
OSHA PEL 2013	TWA: 300 mg/m <sup>3</sup> 8 hours, 100 ppm 8 hours
OSHA PEL 1989	CEIL: 150 mg/m <sup>3</sup> , 50 ppm
Recommended monitoring procedures: Appropriate engineering controls: Environmental exposure controls:	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. 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.
dividual 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

Powder, solid, or granular solid.
White to off-white.
Ammoniacal.
Not available.
Not available.
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:	<ul> <li>High temperature (&gt;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.</li> <li>Avoid generating dust.</li> <li>Refer to protective measures listed in Sections 7 and 8.</li> </ul>
Incompatible materials:	Reactive or incompatible with the following materials: acids, oxidizing materials, strong alkalis.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **11: Toxicological information**

#### Information on toxicological effects

#### Acute toxicity

Ingredient	Result	Species	Dose	Exposure
n-butanol	LC50 inhalation	Rat	8000 ppm	4 hours
	LD50 dermal	Rabbit	3400 mg/kg	-
	LD50 oral	Rat	790 mg/kg	-

**Conclusion/summary:** Oral ALD (rats) > 11,000 mg/kg (product)

#### Irritation/corrosion

Ingredient	Result	Species	Score	Exposure	Observation
n-butanol	Eyes – severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin – moderate	Rabbit	-	24 hours 20	-
	irritant			mg	

#### **Conclusion/summary** Skin: Causes skin irritation Eyes: Causes eye irritation **Respiratory:** May cause respiratory tract irritation Sensitization **Conclusion/summary:** Skin: May cause skin sensitization. (Based on testing of similar products and/or the components.) **Respiratory:** No known significant effects or critical hazards. Mutagenicity: Conclusion/summary: No known significant effects or critical hazards. **Carcinogenicity**

Classification Ingredient		OSHA	IARC	NTP	
Silica, amorp	hous	-	3	-	
precipitated,			5	_	
Carcino	gen classification IARC: 1, 24	1 code: A, 2B, 3, 4			
			bly antic	ipated] to be a hur	nan carcinogen
	OSHA: +	,			
	Not listed/reg	ulated: -			
Reproductive to	kicity				
Conclusion/su	immary:	No know	n signi <sup>.</sup>	ficant effects or	critical hazards.
<b>Teratogenicity</b>			0		
Conclusion/su	mmary.	No know	ın signi <sup>.</sup>	ficant effects or	critical hazards.
Specific target or	•		-	ficant cricets of	
	San toxicity (			to of overcours	Target ergans
Ingredient		Category		te of exposure	Target organs
n-butanol		3	NOT	applicable.	Respiratory tract irritation and
					narcotic effects.
Specific target or	rgan toxicity (	repeated e	exposur	<u>e)</u>	
Not available.					
Target organs		Contains	s mater	ial which may ca	ause damage to the following
		organs: upper respiratory tract, eyes.			
		o ganor	иррстт	espiratory tract	, eyes.
Aspiration hazar	d	orBarior	иррстт	espiratory tract	, eyes.
Aspiration hazar Not available.	<u>d</u>	organor	uppern	espiratory tract	, eyes.
Not available.		C		. ,	
Not available. formation on the		C		. ,	, eyes. al, dermal, inhalation.
Not available. Iformation on the f exposure:	likely routes	C		. ,	
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Not available. nformation on the f exposure: otential acute hea Eye contact:	likely routes	Routes of Causes s Exposure recomm throat, a a health exposure	of entry erious of e to airl ended of ind lung hazard e.	anticipated: ora eye irritation. borne concentra exposure limits gs. Exposure to s. Serious effect	al, dermal, inhalation. ations above statutory or may cause irritation of the nose, decomposition products may caus as may be delayed following
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Not available. nformation on the f exposure: <u>otential acute hea</u> Eye contact: Inhalation:	likely routes	Routes of Causes s Exposure recomm throat, a a health exposure Causes s Prolonge	of entry erious of e to airl ended of ind lung hazard e. kin irrit	anticipated: ora eye irritation. borne concentra exposure limits gs. Exposure to o s. Serious effect cation. May caus peated contact	al, dermal, inhalation. Ations above statutory or may cause irritation of the nose, decomposition products may cause as may be delayed following se an allergic skin reaction. may dry skin and cause irritation.
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Ingestion:	No specific data.
-	nd 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/m <sup>3</sup> 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	
<u>effects</u>	
General:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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

Route	ATE value
Dermal	19833.3 mg/kg

## 12: Ecological information

<u>Toxicity</u>			
Ingredient	Result	Species	Exposure

Silica, amorphous, precipitated, and gel	NOEC > 1000 ppm		Daphnia – <i>daphnia</i> magna		24 hours
	Acute NOEC > 10000 ppm		Fish		96 hours static
	fresh water				
	Acute NOEC > 10000 ppm		Fish – <i>brachydanio</i>	rerio	4 days static
Persistence and degrae	dability				
Ingredient	Aquatic half-life	Pho	otolysis	Biodeg	gradability
Silica, amorphous,	-	-		Not rea	adily
precipitated, and					
gel					
<b>Bioaccumulative poter</b>	<u>ntial</u>				
Ingredient	LogPow	BCF		Potent	tial
Silica, amorphous,	-	0		low	
precipitated, and					
gel					
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

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	-	-	-
<b>Environmental hazards</b>	No.	No.	No.
Marine pollutant	Not applicable.	Not applicable.	Not applicable.
substances			

## 14: Transport information

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):	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.	

## **16: Other information**

#### Hazardous Material Identification System (USA)

HEALTH	2	
FLAMMABILITY	1	
REACTIVITY	0	

#### PERSONAL PROTECTION

\* - chronic effects

Key to

Caution: HMIS<sup>®</sup> 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<sup>®</sup> ratings are not required on SDSs under 29 CFR 1901.1200, the preparer may choose to provide them. HMIS<sup>®</sup> ratings are to be used with a fully implemented HMIS<sup>®</sup> program. HMIS<sup>®</sup> is a registered mark of the Nation Paint & Coatings Association (NPCA). HMIS<sup>®</sup> materials may be purchased exclusively from J.J.Keller 800-327-6868.

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

abbreviations:	ΛΤΓ	Acuto toxicity actimato
appreviations:	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	International convention for the Prevention of
73/78	Pollution from Ships, 1973, as modified by the
	Protocol of 1978. (MARPOL = marine pollution)
UN	United Nations

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