Natro-Cel™ 35-A

# Natro-Cel<sup>™</sup> 35-A

## **1: Identification**

Product identifier: Other means of identification: Supplier:

	55 M	
Trimethylp	propane trime	ethacrylate on silicon dioxide
	NATROCHE	И, Inc.
Ť	P.O. Box 120	05
	Savannah, G	GA 31402-1205
	912-236-44	64
Rubber, ad	dhesives, pair	nts/coatings, inks
Not applic	able.	
CHEMTRE	C (USA)	800-424-9300
CHEMTRE	C (Int'l)	202-483-7616

# 2: Hazard(s) identification

**GHS classification:** 

Recommended use: Restrictions on use:

Chronic aquatic toxicity – Category 2

### **GHS label elements**

**Emergency phone number:** 

Signal word: Symbol(s):



Hazard statements:	H411: Toxic to aquatic life with long lasting effects
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 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 (%)
2-propenoic acid, 2-methyl-, 2- ethyl-2-[[(2-methyl-1-oxo-2- propenyl)oxy]methyl]-1,3- propanediyl ester	Trimethylpropane trimethacrylate	3290-92-4	70-74
Silica, amorphous, precipitated, and gel		112926-00-8	26-30

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

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

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

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

### 4: First-aid measures

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

### **Description of necessary first aid measures**

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

### Most important symptoms/effects, acute and delayed.

### Potential acute health effects

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

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

See toxicological information (Section 11)

# **5: Fire-fighting measures**

### **Extinguishing media**

Suitable extinguishing media: Unsuitable extinguishing media:	Use dry chemical, CO <sub>2</sub> , water spray (fog), or foam. 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. Polymerization is exothermic and can degenerate into an uncontrolled reaction.
Hazardous thermal	In the event of a fire, hazardous decomposition products may
decomposition products:	include: Carbon monoxide Carbon dioxide Methacrylates Other unidentified organic compounds
Special protective actions for firefighters: Special protective equipment for firefighters:	No action shall be taken involving any personal risk or without proper training. Firefighters and others who may be exposed to products of 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 <b>Section 8</b> 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 <b>Section 8</b> ). 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 <b>Section 8</b> 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 <b>Section 10</b> ) and food and drink. Keep container tightly closed and sealed until ready for use.

Do not store in unlabeled containers. Store away from strong oxidizers, strong reducing agents, free radical generators, inert gas, oxygen scavenger, peroxides. Do not store below 32°F (0°C). Do not store above 100°F (38°C)

# 8: Exposure controls/personal protection

## **Control parameters**

Occupational exposure lime None.	its
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

Other skin protection:	be approved by a specialist before handling this product. 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
Respiratory protection:	product. 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:	Acrylic-like.
Odor threshold:	Not available.
pH:	Not available.
Melting/freezing point:	Not available.
Boiling point and range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability:	Not available.
Flammability or explosive	Not available.
limits:	
Vapor pressure:	Not available.
Vapor density:	Not available.
Relative density:	Not available.
Solubility:	Negligible.
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	Hazardous polymerization may occur. Polymerization is exothermic		
reactions:	and can degenerate into an uncontrolled dreaction.		
Conditions to avoid:	High temperature (>800°C) treatment (calcining), which may result in crystalline silica formation.		

	<ul> <li>Avoid alteration of product properties before use. Calcining or mixing with additives may alter toxicological properties.</li> <li>Avoid generating dust.</li> <li>This material polymerizes exothermically in the presence of heat, contamination, oxygen free atmosphere, free radicals, peroxides, and inhibitor depletion, liberating heat.</li> <li>Avoid direct sunlight.</li> <li>DO NOT expose to UV light.</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 Strong reducing agents Free radical generators Inert gas Oxygen scavenger Peroxides
Hazardous decomposition products:	In the event of a fire, hazardous decomposition products may include: Carbon monoxide Carbon dioxide Methacrylates Other unidentified organic compounds

# **11: Toxicological information**

# Information on toxicological effects

# Acute toxicity

No known signific	ant effects or cr	itical hazards.	
Result	Species	Dose	Exposure
LD <sub>50</sub> oral	Rat	>5000 mg/kg	-
LD <sub>50</sub> dermal	Rabbit	>5000 mg/kg	-
LC <sub>0</sub> inhalation	Rat	Saturated	8 hr
		vapor	
	Result       LD <sub>50</sub> oral       LD <sub>50</sub> dermal	ResultSpeciesLD50 oralRatLD50 dermalRabbit	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

# Irritation/corrosion

Conclusion/summary	
Skin:	Causes mild skin irritation (Rabbit, 4-6 hr)
	Causes skin irritation (Rabbit, 5 day repeated exposure)
Eyes:	Causes mild eye irritation (Rabbit) 0.0-8.1/110
Respiratory:	No known significant effects or critical hazards.
<u>Sensitization</u>	
Conclusion/summary:	
Skin:	Not a sensitizer (Guinea pig) Both positive and negative responses
	have been reported.
Respiratory:	No known significant effects or critical hazards.

	utagenicity:				
	Conclusion/summary:	Both positive and negative responses for genetic changes were observed in laboratory tests using: animal cells, human cells			
Ca	rcinogenicity	00501700			
	<b>Conclusion/summary:</b> No known significant effects or critical hazards.				
	Classification				
	Ingredient	OSHA	OSHA IARC NTP		
	Silica, amorphous,	-	3	-	
	precipitated, and gel		-		
	Carcinogen classification	code:			
		, 2B, 3, 4			
	NTP: [Know OSHA: +	wn/Reasonal	bly antici	pated] to be a human carcinogen	
	Not listed/regu	ılated: -			
Re	productive toxicity				
	Conclusion/summary:	No know	n signif	icant effects or critical hazards.	
	ratogenicity		C		
	Conclusion/summary:	No know	n signif	icant effects or critical hazards.	
	ecific target organ toxicity (s	ingle expo	sure)		
	Not available.			,	
	ecific target organ toxicity (r	epeated e	xposur	<u>e)</u>	
	Not available.				
<u>Ta</u>	rget organs	Contains material which may cause damage to the following organs: upper respiratory tract, eyes.			
As	piration hazard				
No	ot available.				
Infor	mation on the likely routes	Routes o	f entry	anticipated: oral, dermal, inhalation.	
of ex	posure:				
Pote	ential acute health eff	ects			
Ey	e contact:	-		ritation expected other than possible mechanical	
امرا	halation:	irritation		area concentrations above statutory or	
INI	halation:	•		orne concentrations above statutory or	
		throat, a		exposure limits may cause irritation of the nose,	
Sk	in contact:		-	beated contact may dry skin and cause irritation.	
	gestion:	-	-	icant effects or critical hazards.	
Svm	intoms related to the	nhysical	. cher	nical, and toxicological characteristics	
-	e contact:			ms may include the following:	
- 7		Irritation			
		Redness			
Inl	halation:		sympto	ms may include the following:	
		Coughing			
			-		

Skin contact:

Dryness No specific data.

Ingestion:

Adverse symptoms may include the following:

Respiratory tract irritation

# 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/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 effects Potential delayed effects	No significant irritation expected other than possible mechanical irritation. Prolonged or repeated contact may dry skin and cause irritation.
Long-term exposure Potential immediate effects Potential delayed effects	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

### Potential chronic health effects

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

# Numerical measures of toxicity

Acute toxicity estimates Not available.

# **12: Ecological information**

### Toxicity

Ingredient	Result	Species	Exposure
Silica, amorphous,	NOEC > 1000 ppm	Daphnia – <i>daphnia magna</i>	24 hours
precipitated, and gel	Acute NOEC > 10000 ppm fresh	Fish	96 hours static
	water		
	Acute NOEC > 10000 ppm	Fish – <i>brachydanio rerio</i>	4 days static
Trimethylpropane	LC50 2 mg/L	Fish – oncorhynchus	96 hours
trimethacrylate		mykiss	
	EC50 9.22 mg/L	Daphnia – <i>daphnia magna</i>	48 hours
	EC50 1.11-3.88 mg/L	Algae –	72 hours
		Pseudokirchneriella	
		subcapitata	
	EC50 > 1000 mgL	Activated sludge	3 hours

### Persistence and degradability

Ingredient	Aquatic half-life	Photolysis	Biodegradability
Silica, amorphous,	-	-	Not readily
precipitated, and gel			
Trimethylpropane	-	-	Not readily (29-53%, 28
trimethacrylate			d)

### **Bioaccumulative potential**

Ingredient	LogPow	BCF	Potential
Trimethylpropane	2.7-4.2	-	-
trimethacrylate			
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.

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	UN3077	UN3077	Not available.
UN proper shipping name	Environmentally	Environmentally	Not available.
	hazardous substance,	hazardous substance,	
	solid, n.o.s.	solid, n.o.s.	
	(Propylidynetrimethyl	(Propylidynetrimethyl	
	trimethacrylate)	trimethacrylate)	
Transport hazard class(es)	9	9	Not available.
Packing group	III	III	Not available.
Environmental hazards	Yes	Yes	Not available.
Marine pollutant substances	Yes.	Yes.	Not available.
Additional information	Not regulated for	-	-
	domestic		
	road/rail/air		
	transport per 49 CFR		
	171.4 (c) (1)		
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.

Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and 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.
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:

Reactivity hazard

### 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				
Trimethylpropane	Not listed	-	Listed	Listed
trimethacrylate				

# **16: Other information**

### Hazardous Material Identification System (USA)

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	

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.

\* - chronic effects

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

### Key to abbreviations:

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

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