Saret 515 DLC®

1: Identification

Recommended use: Restrictions on use:

Emergency phone number:

Product identifier: Other means of identification: Supplier:

Saret 515 DLC [®]			
Chemical	Chemical mixture		
	NATROCHE	M, Inc.	
Ť	P.O. Box 12	205	
	Savannah,	GA 31402-1205	
	912-236-44	64	
Rubber crosslinking agent			
Not applic	able.		
CHEMTRE	C (USA)	800-424-9300	
CHEMTRE	C (Int'l)	202-483-7616	

2: Hazard(s) identification

Skin sensitization – Category 1 Chronic aquatic toxicity – Category 2
Carcinogenicity – Category 2
WARNING
May cause an allergic skin reaction
Toxic to aquatic life with long lasting effects
Suspected of causing cancer.
May form combustible dust concentrations in the air.
Avoid breathing dust/vapours.
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.
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 water spray, CO ₂ , foam, or dry chemical 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:	Possible cross-sensitization with other acrylates and methacrylates.

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-	Trimethylolpropane trimethacrylate, TMPTMA	3290-92-4	55-65
propanediyl ester 2-propenoic acid, 2-ethyl-2-[[(1- oxo-2-propenyl)oxy]methyl]- 1,3-propanediyl ester	Trimethylolpropane triacrylate, TMPTA	15625-89-5	0-10
Benzeneamine, N-nitroso-N- phenyl	N-nitrosodiphenylamine	86-30-6	0-2
Calcium silicate		1344-95-2	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	1 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: Ingestion:	Prolonged or repeated contact may dry skin and cause irritation. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact:	Adverse symptoms may include the following:
	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 media:	Use water spray, CO_2 , foam, or dry chemical to extinguish.
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
	Acrylates
	Methacrylates
	Nitogen oxides
	Other unidentified organic compounds
Special protective actions for	No action shall be taken involving any personal risk or without
firefighters:	proper training.
Special protective	Firefighters and others who may be exposed to products of
equipment for firefighters:	combustion should wear full firefighting turn out gear (full bunker gear) and self-contained breathing apparatus (SCBA) 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

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:

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. Incompatible materials include: strong oxidizing agents, strong reducing agents, free radical generators, inert gas, oxygen scavengers, peroxides.

8: Exposure controls/personal protection

Control parameters

Ingredient	OSHA PEL	ACGIH TLV	NIOSH REL
2-propenoic acid, 2-methyl-,	1 mg/m ³ TWA	Not available.	Not available.
2-ethyl-2-[[(2-methyl-1-oxo-			
2-propenyl)oxy]methyl]-1,3-			
propanediyl ester			
2-propenoic acid, 2-ethyl-2-	1 mg/m³ TWA	Not available.	Not available.
[[(1-oxo-2-			
propenyl)oxy]methyl]-1,3-			
propanediyl ester			
Recommended monitoring	•	ns ingredients with exp	
procedures:	workplace atmosphe	re, or biological monito	oring may be required
	to determine the effe	ectiveness of the ventila	ation or other control
		necessity to use respire	• •
		e should be made to ap	
		-	locuments for methods
		n of hazardous substand	ces will also be
	required.		
Appropriate engineering	•	tion should be sufficien	t to control worker
controls:	exposure to airborne		
Environmental exposure		lation or work process of	• •
controls:		at they comply with the	
		ction legislation. In som	
		engineering modificatio	
		cessary to reduce emis	sions to acceptable
	levels.		

Occupational exposure limits

Individual protection measures

Hygiene measures:	Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: splash goggles.
Skin protection	
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. When handling hot material, wear heat-resistant gloves that are able to withstand the temperature of molten product.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air- purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

9: Physical and chemical properties

<u>Appearance</u>	
Physical state:	Powder, solid, or granular solid.
Color:	Tan to brown
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 limits:	Not available.
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

101 blability and 1 cactiv	
Reactivity:	No specific test data related to reactivity available for this product
	or its ingredients.
Chemical stability:	This product is stable under normal and anticipated storage,
	handling, and processing considtions; however, this material can
	undergo hazardous polymerization.
Possibility of hazardous	Hazardous polymerization may occur. Polymerization is exothermic
reactions:	and can degenerate into an uncontrolled reaction.
Conditions to avoid:	Avoid generating dust.
conditions to avoid.	
	This material polymerizes exothermically in the presence of heat,
	contamination, oxygen-free atmosphere, free radicals, peroxides,
	and inhibitor depletion, liberating heat.
	Avoid direct sunlight.
	Do NOT expose to UV light.
	Refer to protective measures listed in Sections 7 and 8.
Incompatible materials:	Reactive or incompatible with the following materials:
••••••	Acids
	Oxidizing materials
	Strong alkalis
	Strong reducing agents
	Free radical generators
	Inery gas
	Oxygen scavenger
	Peroxides
Hazardous decomposition	In the event of a fire, hazardous decomposition products may
products:	include:
	Carbon monoxide
	Carbon dioxide
	Acrylates
	Methacrylates
	, Nitogen oxides
	Other unidentified organic compounds
	other unidentified of game compounds

11: Toxicological information

Information on toxicological effects

Acute toxicity

Conclusion/summary: No known signific	cant effects or critical hazards.
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Ingredient	Result	Species	Dose	Exposure
2-propenoic acid, 2-	LD ₅₀ dermal	Rabbit	>5000 mg/kg	-
methyl-, 2-ethyl-2-[[(2-	LC ₀ inhalation	Rat	Saturated	8 h
methyl-1-oxo-2-			vapour	
propenyl)oxy]methyl]-				
1,3-propanediyl ester				
2-propenoic acid, 2-ethyl-				
2-[[(1-oxo-2-				
propenyl)oxy]methyl]-				
1,3-propanediyl ester				
2-propenoic acid, 2-	LD ₅₀ dermal	Rabbit	5170 mg/kg	-
methyl-, 2-ethyl-2-[[(2-	LD ₅₀ dermal	Rat	>2000 mg/kg	-
methyl-1-oxo-2-	LC ₀ inhalation	Rat	>0.55mg/L	6 h
propenyl)oxy]methyl]-				
1,3-propanediyl ester				
2-propenoic acid, 2-ethyl-				
2-[[(1-oxo-2-				
propenyl)oxy]methyl]-				
1,3-propanediyl ester				
2-propenoic acid, 2-	LD ₅₀ dermal	Rabbit	>7940 mg/kg	-
methyl-, 2-ethyl-2-[[(2-				
methyl-1-oxo-2-				
propenyl)oxy]methyl]-				
1,3-propanediyl ester				
ritation/corrosion				

Irritation/corrosion Conclusion/summary

Skin:

Eyes:

Respiratory: Sensitization Conclusion/summary: Skin:

TMPTMA: Not a sensitizer – Guinea pig maxmisation test. Both positive and negative responses have been recorded. Possible cross sensitization with other acrylates and methacrylates. TMPTA: May cause an allergic skin reaction, repeated skin exposure. Guinea pig – skin allergy was observed (strong sensitizer).

TMPTMA: Causes mild skin irritation – Rabbit, 4-6 h. Causes skin

TMPTA: Causes mild skin irritation – Rabbit, 4 h (Irritation index

TMPTMA: Causes mild eye irritation – Rabbit, 0-8.1/110 TMPTA: Causes serious eye irritation – Rabbit, 44/110 N-nitrosodiphenylamine: Causes mild eye irritation - Rabbit

irritation – Rabbit, 5 d repeated exposure.

No known significant effects or critical hazards.

2.2-3.8/8)

Respiratory:	No know	'n signif	icant effects or critical hazards.
<u>Mutagenicity:</u>			
Conclusion/summary:	laborato response human c laborato TMPTA: observed genetic c N-nitroso changes cells. In v	ry tests es were ells. In v ry tests in vitro d in labo changes odipher were ol vivo – N ng rats,	ro – No genetic changes were observed in using bacteria, yeast. Both positive and negative observed in laboratory tests using animal cells, vivo – No genetic changes were observed in using rats, mice. – both positive and equivocal responses were oratory tests using bacteria. Genetic changes were oratory tests using animal cells. In vivo – No s were observed in laboratory tests using mice. hylamine: in vitro – Both positive and negative bserved in laboratory tests using bacteria, animal o genetic changes were observed in laboratory mice. An equivocal response has been reported in t flies.
Carcinogenicity	u test us	116 H UI	
Conclusion/summary:	tumour i N-nitroso no increa administ	ncideno odipher ase in tu ration t	nic dermal administration to mouse: no increase in ce was reported. nylamine: Chronic dietary administration to mouse: umour incidence was reported. Chronic dietary so rat: increase in tumour incidence was reported
Classification	(urinary	bladder	·).
<u>Classification</u>	00110		
Ingredient	OSHA		NTP
N-nitrosodiphenylamine Carcinogen classification	-	3	-
IARC: 1, 2A,	2B, 3, 4 /n/Reasona	bly antici	ipated] to be a human carcinogen
Reproductive toxicity			
Conclusion/summary:	TMPTMA	۱: Oral,	rat, no toxicity to reproduction.
<u>Teratogenicity</u>			
Conclusion/summary:	No know	n signif	icant effects or critical hazards.
Specific target organ toxicity (si	ingle expo	osure)	
Not available.			
Specific target organ toxicity (re	epeated e	xposur	<u>e)</u>
Not available.			
Target organs			al which may cause damage to the following
Aspiration hazard Not available.	organs: ι	upper re	espiratory tract, eyes.
formation on the likely routes	_ .		anticipated: oral, dermal, inhalation.

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

Conclusion/summary:

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 Oral ATE: > 5000 mg/kg

12: Ecological information

Toxicity

Ingredient	Result	Species	Exposure
ТМРТМА	LC50 2 mg/L	Fish – oncorhynchus mykiss	96 h
	EC50 9.22 mg/L	Daphnia – <i>daphnia</i> magna	48 h
ТМРТМА ТМРТА	EC50 1.11-3.88 mg/L	Algae – pseudokirchneriella subcapitata	72 h
	EC50 > 1000 mg/L	Activated sludge	3 h
	NOEC 0.138 mg/L	Fish – pimephales promelas	32 d
	LL50 1.47 mg/L	Fish – <i>leuciscus idus</i>	96 h
	EC50 19.9 mg/L	Daphnia – <i>daphnia</i> magna	48 h
TMPTA N-	EC50 4.86 mg/L	Algae – desmodesmus subspicatus	96 h
nitrosodiphenylamine	EC20 625 mg/L	Activated sludge	30 m
	LC50 5.8 mg/L	Fish – lepomis macrochirus	96 h
	EC50 7.8 mg/L	Daphnia – <i>daphnia</i> magna	48 h
N- nitrosodiphenylamine	ErC50 > 4 mg/L	Algae - raphidocelus subcapitata	72 h
	NOEC 0.075 mg/L	Daphnia – <i>daphnia</i> magna	21 d
	ErC10 2.2 mg/L	Algae - raphidocelus subcapitata	72 h

Persistence and degradability

Ingredient	Aquatic half-life	Photolysis	Biodegradability
ТМРТМА	-	-	Not readily (29-53%,
			28 d)
TMPTA	-	-	Readily (86%, 28 d)
N-	-	-	Readily (98%, 7 d)
nitrosodiphenylamine			

Bioaccumulative potential

Ingredient	LogPow	BCF	Potential
TMPTMA	2.7-4.2	-	-
ТМРТА	0.67	-	-
N-	2.57-3.13	-	low
nitrosodiphenylamine			

Mobility in soil

Soil/water partition	Not available.
coefficient (Koc):	
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 lows 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.

14: Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	UN3077 UN3077		UN3077
UN proper shipping name	Environmentally	Environmentally	Environmentally
	hazardous substance,	hazardous substance,	hazardous substance,
	solid, n.o.s.	solid, n.o.s.	solid, n.o.s.
	(Propylidynetrimethyl	(Propylidynetrimethyl	(Propylidynetrimethyl
	trimethacrylate)	trimethacrylate)	trimethacrylate)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes	Yes	Yes
Marine pollutant substances	Yes	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	Not available.		
to Annex II of MARPOL			
73/78 and the IBC code:			

15: Regulatory information

Inventory status

United States inventory (TSCA 8b):

All components are listed or exempted.

Australia inventory (AICS):	All components are listed or exempted.
Canada inventory (DSL):	All components are listed or exempted.
China inventory (IECSC):	All components are listed or exempted.
Europe inventory (REACH):	All components are listed or exempted.
Japan inventory (ENCS):	Please contact your supplier for information on the inventory status of this material.
Korea inventory (KECI):	All components are listed or exempted.
New Zealand inventory (NZIOC):	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, acute health hazard, chronic health hazard.

Section 313 – Toxic Chemicals:

N-nitrosodiphenylamine (86-30-6), 1.0% de minimis, 25k lb mfring, 10k lb other

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – Reportable Quantity (RQ)

N-nitrosodiphenylamine (86-30-6): 100 lb

US State regulations:

Ingredient	NJ RTK	MA RTK	PN RTK	CA Prop. 65
ТМРТМА	-	-	Listed	-
ТМРТА	-	-	Listed	-
N-nitrosodiphenylamine	Listed	-	Listed	-
Benzene, -methyl	-	-	-	Listed

16: Other information

Hazardous Material Identification System (USA)

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	

Caution: HMIS[®] ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS[®] ratings are not required on 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.

* - 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

Disclaimer:

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