

Safety Data Sheet: NATURALIZER VC

Supersedes Date 05/10/2013

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **NATURALIZER VC**
 Recommended use Cleaning agent
 Information on Manufacturer
 CHEMSEARCH DIV. OF NCH CORP.
 BOX 152170
 IRVING, TX 75015

Product Code 0480
 Chemical nature Aqueous surfactant solution
 Emergency Telephone Number
 CHEMTREC® 800-424-9300
 Telephone inquiry
 972-579-2477

2. HAZARD IDENTIFICATION

Color Yellow-orange - Red orange

Physical State Liquid

Odor Orange

GHS

Classification

Physical Hazards

Flammable liquids

Category 3

Health Hazard

Aspiration Toxicity
 Skin Corrosion/Irritation
 Serious Eye Damage/Eye Irritation
 Respiratory Sensitization
 Skin Sensitization
 Carcinogenicity
 Specific target organ systemic toxicity (single exposure)
 Specific target organ systemic toxicity (repeated exposure)

Category 1
 Category 2
 Category 2A
 Category 1
 Category 1
 Category 2
 Category 3
 Category 2

Other hazards

None

Labeling

Signal Word

DANGER

Hazard Statements

H226 - Flammable liquid and vapor
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H336 - May cause drowsiness or dizziness
 H304 - May be fatal if swallowed and enters airways
 H373 - May cause damage to organs through prolonged or repeated exposure
 H351 - Suspected of causing cancer

Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood
 P210 - Keep away from heat, sparks, open flames or hot surfaces.
 P280 - Wear protective gloves, protective clothing and eye protection.
 P264 - Wash face, hands and any exposed skin thoroughly after handling.
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P260 - Do not breathe mist or vapor.
 P271 - Use in a well-ventilated area.
 P285 - In case of inadequate ventilation wear respiratory protection
 P270 - Do not eat, drink or smoke when using this product
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
 P333 + P313 - If skin irritation or rash occurs, get medical attention
 P362 - Take off contaminated clothing and wash before reuse
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists, get medical attention.
 P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
 P342 + P311 - If experiencing respiratory symptoms, call a physician
 P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
 P403 + P235 - Store in a well-ventilated place. Keep cool
 P233 - Keep container tightly closed
 P501 - Dispose of contents and container in accordance with applicable regulations.

18 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
D-Limonene	5989-27-5	40-70
Triethanolamine salt of tall oil fatty acid	68132-46-7	7-13
Hexylene glycol	107-41-5	7-13
Diethanolamine salt of tall oil fatty acid	61790-66-7	1-5
Soyamide diethanolamine	68425-47-8	1-5
Coconut fatty acid	68936-15-8	1-5
Cocamide DEA	68603-42-9	1-5

4. FIRST AID MEASURES

General advice Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Inhalation Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician May cause sensitization of susceptible persons. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

5. FIRE-FIGHTING MEASURES

Flash Point 119 °F / 48 °C **Method** Seta closed cup
Flammability Limits in Air % Solvent mixture. Upper 6.1 **Lower** 0.7
Suitable Extinguishing Media
 Water spray. Carbon dioxide (CO2). Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical
 Combustible Liquid. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.
Protective Equipment and Precautions for Firefighters
 As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
NFPA Health 2 **Flammability** 2 **Instability** 0
HMIS Health 2 **Flammability** 2 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions Do not flush into surface water or sanitary sewer system.
Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.
Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
Storage Keep away from heat and sources of ignition. Store in original container. Keep in a dry, cool and well-ventilated place.
Storage Temperature Minimum 35 °F / 2 °C **Maximum** 100 °F / 38 °C
Storage Conditions Indoor X Outdoor **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
D-Limonene	No data available	No data available	No data available
Triethanolamine salt of tall oil fatty acid	No data available	No data available	No data available
Hexylene glycol	Ceiling: 25 ppm	No data available	Ceiling: 25 ppm Ceiling: 125 mg/m ³
Diethanolamine salt of tall oil fatty acid	No data available	No data available	No data available
Soyamide diethanolamine	No data available	No data available	No data available
Coconut fatty acid	No data available	No data available	No data available
Cocamide DEA	No data available	No data available	No data available

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

- Eye/Face Protection
- Skin Protection
- Respiratory Protection

Tightly fitting safety goggles.
Wear suitable protective clothing, impervious gloves.
In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use. Wear protective gloves/clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Yellow-orange - Red orange	Odor	Orange
Odor Threshold	Not applicable	Appearance	Transparent - Slightly hazy
pH	8.5	Specific Gravity	0.885
Evaporation Rate	0.2 (Butyl acetate=1)	Percent Volatile (Volume)	83.1
VOC Content (%)	69.8	VOC Photoreactive (Y/N)	Yes
VOC Max Use Dilution (g/L)	35.36	VOC Max Use Dilution (wt%)	4
VOC Content (g/L)	617	Vapor Pressure	11.6 mmHg @ 70°F
Vapor Density	1.0 (Air = 1.0)	Solubility	Slightly soluble
n-Octanol/Water Partition	No data available	Melting Point/Range	No data available
Decomposition Temperature	No data available	Boiling Point/Range	378 °F / 192 °C
Flammability (solid, gas)	No data available	Method	Seta closed cup
Flash Point	119 °F / 48 °C		
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Solvent mixture.	Upper 6.1 Lower 0.7	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition
Incompatible Products	Strong oxidizing agents, Reducing agents, Strong acids, Strong bases.
Hazardous Decomposition Products	Carbon oxides, Sulfur oxides, Nitrogen oxides (NOx).
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure

Skin contact, Eye contact, Inhalation.

Primary Routes of Entry

Inhalation, Skin Absorption.

Acute Effects

- Eyes
- Skin
- Inhalation

Severe eye irritant.
Causes skin irritation. May cause allergic skin reaction.
May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May cause allergic respiratory reaction.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage.

Chronic Toxicity

May cause sensitization by inhalation. May cause sensitization by skin contact. Liver and kidney injuries may occur. Contains a known or suspected carcinogen.

Target Organ Effects

Central nervous system, Respiratory system, Kidney, Liver, Immune system, Skin, Eyes.

Aggravated Medical Conditions

Neurological disorders, Respiratory disorders, Kidney disorders, Liver disorders, Skin disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
D-Limonene	no data available	> 5 g/kg (Rabbit)	no data available	no data available	no data available
Triethanolamine salt of tall oil fatty acid	no data available	no data available	no data available	no data available	no data available
Hexylene glycol	= 3692 mg/kg (Rat)	no data available	> 310 mg/m ³ (Rat) 1 h	no data available	no data available
Diethanolamine salt of tall oil fatty acid	no data available	no data available	no data available	no data available	no data available
Soyamide diethanolamine	no data available	no data available	no data available	no data available	no data available
Coconut fatty acid	no data available	no data available	no data available	no data available	no data available
Cocamide DEA	no data available	no data available	no data available	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
D-Limonene	no data available	Skin sensitization, Respiratory sensitization	no data available	no data available	CNS, immune system, lungs, liver, kidneys
Triethanolamine salt of tall oil fatty acid	no data available	no data available	no data available	no data available	no data available
Hexylene glycol	no data available	Skin sensitization	no data available	no data available	eyes, CNS, respiratory system, skin, immune system
Diethanolamine salt of tall oil fatty acid	no data available	no data available	no data available	no data available	no data available
Soyamide diethanolamine	no data available	no data available	no data available	no data available	no data available
Coconut fatty acid	no data available	no data available	no data available	no data available	no data available
Cocamide DEA	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
D-Limonene	not applicable	not applicable	not applicable	not applicable	not applicable
Triethanolamine salt of tall oil fatty acid	not applicable	not applicable	not applicable	not applicable	not applicable
Hexylene glycol	not applicable	not applicable	not applicable	not applicable	not applicable
Diethanolamine salt of tall oil fatty acid	not applicable	not applicable	not applicable	not applicable	not applicable
Soyamide diethanolamine	not applicable	not applicable	not applicable	not applicable	not applicable
Coconut fatty acid	not applicable	not applicable	not applicable	not applicable	not applicable
Cocamide DEA	not applicable	Group 2B	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
D-Limonene	no data available	LC50 0.619 - 0.796 mg/L Pimephales promelas 96 h LC50 = 35 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	N/A
Triethanolamine salt of tall oil fatty acid	no data available	no data available	no data available	no data available	N/A
Hexylene glycol	no data available	LC50 10500 - 11000 mg/L Pimephales promelas 96 h LC50 = 10000 mg/L Lepomis macrochirus 96 h LC50 = 8690 mg/L Pimephales promelas 96 h LC50 = 10700 mg/L Pimephales promelas 96 h	EC50 = 3038 mg/L 5 min	EC50 2700 - 3700 mg/L 48 h	<0.14
Diethanolamine salt of tall oil fatty acid	no data available	no data available	no data available	no data available	N/A
Soyamide diethanolamine	no data available	no data available	no data available	no data available	N/A
Coconut fatty acid	no data available	no data available	no data available	no data available	N/A
Cocamide DEA	no data available	LC50 = 3.6 mg/L Brechydario rerio 96 h	EC50 = 6000 mg/L 16 h	EC50 = 4.2 mg/L 24 h	N/A

Persistence and Degradability

No information available.

Bioaccumulation No information available.
 Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
 Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal

14. TRANSPORT INFORMATION

DOT
 Proper Shipping Name COMBUSTIBLE LIQUIDS, N.O.S., (D-LIMONENE)
 Hazard Class 3
 UN-No UN2052
 Packing Group III
 Description Dipentene Solution ,3,UN2052,PG III

TDG
 Proper shipping name Dipentene (Mixture)
 Hazard Class 3
 UN-No UN2052
 Packing Group III

ICAO
 UN-No UN2052
 Proper Shipping Name Dipentene Solution
 Hazard Class 3
 Packing Group III
 Shipping Description Dipentene Solution,3,UN2052,PG III

IATA
 UN-No UN2052
 Proper Shipping Name Dipentene Solution
 Hazard Class 3
 Packing Group III
 ERG Code 3L
 Shipping Description UN2052,Dipentene Solution,3,PG III

IMDG/MO
 Proper Shipping Name Dipentene Solution
 Hazard Class 3
 UN-No UN2052
 Packing Group III
 EmS No. F-E, S-E
 Shipping Description UN2052, Dipentene Solution,3,PG III

15. REGULATORY INFORMATION

Inventories
 TSCA Complies
 DSL Complies

U.S. Federal Regulations
 SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
D-Limonene	Not applicable	Not applicable
Triethanolamine salt of tall oil fatty acid	Not applicable	Not applicable
Hexylene glycol	Not applicable	Not applicable
Diethanolamine salt of tall oil fatty acid	Not applicable	Not applicable
Soyamide diethanolamine	Not applicable	Not applicable
Coconut fatty acid	Not applicable	Not applicable

Cocamide DEA	Not applicable	Not applicable
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16. OTHER INFORMATION

Prepared By	Adrienne McKee
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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