Material Safety Data Sheet: CUT-THRU VC

Supercedes Date 09/11/2009 **Issuing Date** 05/10/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CUT-THRU VC
Recommended use Cleaning agent
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

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

2. HAZARDS IDENTIFICATION

Emergency Overview
WARNING
Combustible Liquid
Causes skin irritation
Causes severe eye irritation
May cause allergic skin reaction
May be harmful if inhaled
May cause allergic respiratory reaction
Harmful or fatal if swallowed

Color Yellow-orange - Red orange **Physical State** Liquid **Odor** Orange

Potential Health Effects

Principle Route of Exposure	Skin contact, Eye contact, Inhalation.
Primary Routes of Entry	Inhalation, Skin Absorption.
Acute Effects	
Eyes	Severe eye irritant.
Skin	Causes skin irritation. May cause allergic skin reaction.
Inhalation	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.
Potential Environmental Effects	See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

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

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
Autoignition Temperature No information available.
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** Tightly fitting safety goggles.
- **Skin Protection** Wear suitable protective clothing, Impervious gloves.
- **Respiratory Protection** 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 Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	Yellow-orange - Red orange	**Odor**	Orange
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 (%)**	73.4
VOC Photoreactive (Y/N)	Yes	**VOC Max Use Dilution (g/L)**	38.6
VOC Max Use Dilution (wt%)	2.41	**VOC Content (g/L)**	617

Vapor Pressure	11.6 mmHg @ 70°F	**Vapor Density**	1.0 (Air = 1.0)
Solubility	Slightly soluble	**Boiling Point/Range**	378 °F / 192 °C

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 No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
D-Limonene	= 4400 mg/kg (Rat)	> 2000 mg/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)	= 8560 µL/kg (Rabbit)	> 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	= 12400 µL/kg (Rat)	no data available	no data available	no data available	no data available

Chronic Toxicity

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	EC50 = 3038 mg/L 5 min	EC50 2700 - 3700 mg/L 48	<0.14

		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		h	
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 Brachydanio 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 Solution
Hazard Class 3
UN-No UN2052
Packing Group III
Description DIPENTENE SOLUTION,3,UN2052,PG 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/IMO
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 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

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B3 Combustible liquid D2A Very toxic materials D2B Toxic materials

16. OTHER INFORMATION

Prepared By	Rachael Mohochi
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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