

Material Safety Data Sheet: CITRUS FULLBACK

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1. PRODUCT AND COMPANY IDENTIFICATION

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

Product Code 0616
Chemical nature Solvent mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING

Combustible liquid and vapor
Causes skin irritation
May cause allergic skin reaction
Causes eye irritation
May be harmful if inhaled
May cause allergic respiratory reaction
May be harmful if swallowed

Color Amber

Physical State Liquid

Odor Citrus

Potential Health Effects

Principle Route of Exposure

Skin contact, Eye contact, Inhalation.

Primary Routes of Entry

Inhalation, Skin Absorption.

Acute Effects

Eyes

Causes eye irritation.

Skin

Causes skin irritation. May cause allergic skin reaction.

Inhalation

May cause irritation of respiratory tract. May cause allergic respiratory reaction. 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.

Ingestion

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

Chronic Toxicity

May cause sensitization by skin contact. May cause sensitization by inhalation. Liver and kidney injuries may occur.

Target Organ Effects

Central nervous system, Liver, Kidney, Lungs, Immune system.

Aggravated Medical Conditions

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

Potential Environmental Effects

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
1-Tetradecene	1120-36-1
D-Limonene	5989-27-5
Tallamide DEA	68155-20-4
Cocamide DEA	68603-42-9
2-Butyl-1-decene	51655-65-3
2-Ethyl-1-dodecene	19780-34-8
Diethanolamine	111-42-2

4. FIRST AID MEASURES

General advice

Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.

Eye Contact

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.

Inhalation

Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give 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.

5. FIRE-FIGHTING MEASURES

Flash Point	160 °F / 71 °C	Method	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air % Solvent mixture.		Upper	6.1
		Lower	0.5
Suitable Extinguishing Media	Foam. Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical. Water spray. 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	Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Take precautionary measures against static discharges.			
Storage	Keep away from heat and sources of ignition. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.			
Storage Temperature	Minimum	30 °F / -1 °C	Maximum	120 °F / 49 °C
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
1-Tetradecene	No data available	No data available	No data available
D-Limonene	No data available	No data available	No data available
Tallamide DEA	No data available	No data available	No data available
Cocamide DEA	No data available	No data available	No data available
2-Butyl-1-decene	No data available	No data available	No data available
2-Ethyl-1-dodecene	No data available	No data available	No data available
Diethanolamine	TWA: 1 mg/m ³ Skin	No data available	TWA: 3 ppm TWA: 15 mg/m ³

Engineering Measures	Ensure adequate ventilation, especially in confined areas
Personal Protective Equipment	
Eye/Face Protection	Safety glasses with side-shields.
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	Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Amber	Odor	Citrus
Appearance	Transparent	pH	Not applicable
Specific Gravity	0.815	Evaporation Rate	0.02 (Butyl acetate=1)

Percent Volatile (Volume)	88.97	VOC Content (%)	20.0
VOC Photoreactive (Y/N)	Yes	VOC Max Use Dilution (g/L)	40
VOC Max Use Dilution (wt%)	5.0	VOC Content (g/L)	163
Vapor Pressure	0.36 mmHg @ 70°F	Vapor Density	4.8 (Air = 1.0)
Solubility	Emulsifiable	Boiling Point/Range	> 430 °F / 221 °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, Strong acids, Strong bases, Halogenated hydrocarbon, Rubber products, Vinyl compounds.
Hazardous Decomposition Products	Carbon 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
1-Tetradecene	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	no data available	no data available	no data available
D-Limonene	= 4400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	no data available	no data available	no data available
Tallamide DEA	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
2-Butyl-1-decene	no data available	no data available	no data available	no data available	no data available
2-Ethyl-1-dodecene	no data available	no data available	no data available	no data available	no data available
Diethanolamine	= 620 µL/kg (Rat)	= 7640 µL/kg (Rabbit)	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
1-Tetradecene	no data available	no data available	no data available	no data available	no data available
D-Limonene	no data available	Skin sensitization, Respiratory sensitization	no data available	no data available	CNS, immune system, lungs, liver, kidneys
Tallamide DEA	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
2-Butyl-1-decene	no data available	no data available	no data available	no data available	no data available
2-Ethyl-1-dodecene	no data available	no data available	no data available	no data available	no data available
Diethanolamine	no data available	Skin sensitization	no data available	X	eyes, respiratory system, skin, CNS, liver, blood, testes, heart, kidney, immune system

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
1-Tetradecene	not applicable	not applicable	not applicable	not applicable	not applicable
D-Limonene	not applicable	not applicable	not applicable	not applicable	not applicable
Tallamide DEA	not applicable	not applicable	not applicable	not applicable	not applicable
Cocamide DEA	not applicable	Group 2B	not applicable	not applicable	not applicable
2-Butyl-1-decene	not applicable	not applicable	not applicable	not applicable	not applicable
2-Ethyl-1-dodecene	not applicable	not applicable	not applicable	not applicable	not applicable
Diethanolamine	A3	Group 2B	not applicable	X	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
1-Tetradecene	no data available	no data available	EC50 > 10000 mg/L 6 h	no data available	N/A
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
Tallamide DEA	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

2-Butyl-1-decene	no data available	no data available	no data available	no data available	N/A
2-Ethyl-1-dodecene	no data available	no data available	no data available	no data available	N/A
Diethanolamine	EC50 = 7.8 mg/L Desmodosmus subspicatus 72 h EC50 2.1 - 2.3 mg/L Pseudokirchneriella subcapitata 96 h	LC50 4460 - 4980 mg/L Pimephales promelas 96 h LC50 1200 - 1580 mg/L Pimephales promelas 96 h LC50 600 - 1000 mg/L Lepomis macrochirus 96 h	EC50 = 73 mg/L 5 min EC50 > 16 mg/L 16 h	EC50= 55 mg/L 48 h	-2.18

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 TERPENE HYDROCARBONS, N.O.S.
Hazard Class 3
UN-No UN2319
Packing Group III
Description UN2319, TERPENE HYDROCARBONS, N.O.S., 3, PG III (<119 gal Not DOT Regulated - Combustible exception 173.150(f))

TDG Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

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.

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Diethanolamine	111-42-2	0.1-1	1.0

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
1-Tetradecene	Not applicable	Not applicable
D-Limonene	Not applicable	Not applicable
Tallamide DEA	Not applicable	Not applicable
Cocamide DEA	Not applicable	Not applicable
2-Butyl-1-decene	Not applicable	Not applicable
2-Ethyl-1-dodecene	Not applicable	Not applicable
Diethanolamine	100 lb	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	Ana Santiago
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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