Odor Citrus

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CITRUS KLAW Recommended use Cleaning agent Information on Manufacturer Product Code 0000 Chemical nature Solvent mixture Emergency Telephone Number CHEMTREC[®] 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER

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 Straw - Amber Potential Health Effects Principle Route of Exposure

Primary Routes of Entry

Acute Effects

Eyes

Skin

Inhalation

Ingestion

Chronic Toxicity

Target Organ Effects Aggravated Medical Conditions Potential Environmental Effects Physical State Liquid

Skin contact, Eye contact, Inhalation.

Inhalation, Skin Absorption.

Causes eye irritation.

Causes skin irritation. May cause allergic skin reaction.

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

may occur. Contains a known or suspected reproductive toxin. Contains a known or suspected

carcinogen.

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

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

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
1-Tetradecene	1120-36-1
D-Limonene D-Limonene	5989-27-5
Tallamide DEA	68155-20-4
Cocamide DEA	68603-42-9
2-Ethyl-1-dodecene	19780-34-8
2-Hexyl-1-octene	19780-80-4
2-Butyl-1-decene	51655-65-3
Diethanolamine	111-42-2

4. FIRST AID MEASURES

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

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. May be fatal if swallowed and enters airways.

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. Carbon dioxide (CO2). 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 Storage 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. Keep away from heat and sources of ignition. Store in original container. Keep containers tightly closed

in a dry, cool and well -ventilated place.

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Storage Temperature

Minimum

30 °F / -1 °C

Maximum

120 °F / 49 °C

Storage Conditions

Indoor

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-Ethyl-1-dodecene	No data available	No data available	No data available
2-Hexyl-1-octene	No data available	No data available	No data available
2-Butyl-1-decene	No data available	No data available	No data available
Diethanolamine	TWA: 1 mg/m ³	No data available	TWA: 3 ppm
	Skin		TWA: 15 mg/m ³

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 Safety glasses with side-shields.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid

Viscosity

Non viscous

Color Appearance Specific Gravity Straw - Amber Transparent 0.803 Odor pH

Citrus
Not applicable

Percent Volatile (Volume) VOC Photoreactive (Y/N) VOC Max Use Dilution (wt%)

91.6 Yes 5.0 Evaporation Rate VOC Content (%) VOC Max Use Dilution (g/L)

Boiling Point/Range

0.02 (Butyl acetate=1) 90.3

Vapor Pressure Solubility 0.37 mmHg @ 70°F Emulsifiable VOC Content (g/L)
Vapor Density

4.9 (Air = 1.0) > 430 °F / 221 °C

40

752

10. STABILITY AND REACTIVITY

Chemical Stability Conditions to Avoid Incompatible Products

Hazardous Decomposition Products
Possibility of Hazardous Reactions

Stable. Hazardous polymerization does not occur.

Keep away from open flames, hot surfaces, and sources of ignition Strong oxidizing agents, Strong acids, Strong bases, Halogenated hydrocarbon, Rubber products, Vinyl compounds.

Carbon oxides, Nitrogen oxides (NOx).

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	= 21300 mg/kg (Rat) >	= 10000 mg/kg (Rabbit) >	no data available	no data available	no data available
	10000 mg/kg (Rat)	10000 mg/kg (Rabbit) >			Ì
		2430 mg/kg (Rabbit)			
D-Limonene	= 4400 mg/kg (Rat)	> 5 g/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	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
2-Hexyl-1-octene	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 ayailable	no data available	no data available
Diethanolamine	= 0.62 mL/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
1-Tetradecene	no data available	no data available	no data available	no data available	no data available
D-Limonene	no data available	Skin sensitization,	no data available	no data available	CNS, immune system,
		Respiratory sensitization			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-Ethyl-1-dodecene	no data available	no data available	no data available	no data available	no data available
2-Hexyl-1-octene	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
Diethanolamine	no data available	Skin sensitization	no data available	X	eyes, respiratory system,
					skin, CNS, liver, blood,
					testes, heart, kidney,
					immune system

Carcinogenicity

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

12. ECOLOGICAL INFORMATION

Product Information
Component Information

No information available.

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
1-Tetradecene	EC50 22 - 24 mg/L	LC50 1 - 3.2 mg/L Brachydanio rerio	EC50 > 10000 mg/L 6 h	0.68: 96 h Daphnia magna	N/A
	Pseudokirchneriella	96 h		mg/L LC50	
	subcapitata 96 h	LC50 10.0 - 32.0 mg/L Poecilia		0.74: 48 h Daphnia magna	
		reticulata 96 h		mg/L EC50	
		LC50 = 0.39 mg/L Oncorhynchus			
		mykiss 96 h			
		LC50 = 1.06 mg/L Pimephales			
		promelas 96 h			
D-Limonene	no data available	LC50 0.619 - 0.796 mg/L Pimephales	no data available	no data available	N/A
		promelas 96 h			
		LC50 = 35 mg/L Oncorhynchus			
		mykiss 96 h			
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	EC50 = 6000 mg/L 16 h	4.2: 24 h Daphnia magna	N/A
		h		mg/L EC50	
2-Ethyl-1-dodecene	no data available	no data available	no data available	no data available	N/A
2-Hexyl-1-octene	no data available	no data available	no data available	no data available	N/A
2-Butyl-1-decene	no data available	no data available	no data available	no data available	N/A
Diethanolamine	EC50 2.1 - 2.3 mg/L	LC50 1200 - 1580 mg/L Pimephales	EC50 = 73 mg/L 5 min	55: 48 h Daphnia magna	-2.18
	Pseudokirchneriella	promelas 96 h	EC50 > 16 mg/L 16 h	mg/L EC50	
	subcapitata 96 h	LC50 4460 - 4980 mg/L Pimephales	· ·		
	EC50 = 7.8 mg/L	promelas 96 h			
İ	Desmodesmus	LC50 600 - 1000 mg/L Lepomis			
	subspicatus 72 h	macrochirus 96 h			

Persistence and Degradability

Bioaccumulation Mobility

No information available.

No information available.

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Container Disposal Dispose of in accordance with local regulations.

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 Packing Group UN2319

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 DSL Complies Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or 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	Reactive Hazard
			Pressure Hazard	

Yes	Yes	Yes	No	l No	
ERCLA				•	
Compo	onent	Hazardous Substances RQs		CERCLA EHS RQs	
1-Tetrad	ecene	Not applicable		Not applicable	
D-Limo	nene	Not applicable		Not applicable	
Tallamid	e DEA	Not applicable		Not applicable	
Cocamid	e DEA	Not applicable		Not applicable	
2-Ethyl-1-dodecene		Not applicable		Not applicable	
2-Hexyl-1	-octene	Not applicable		Not applicable	
2-Butyl-1-decene		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

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Issuing Date 04/21/2014

Reason for RevisionNo information available.GlossaryNo information available.List of References.No information available.

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