

Safety Data Sheet CITRUS KLAU PLUS

Supersedes Date 08/19/2014***

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CITRUS KLAU PLUS
Recommended use Cleaning agent***
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 0724
Chemical nature Solvent mixture***
Emergency Telephone Number

Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Straw to Amber***

Physical state Liquid***

Odor Citrus***

GHS

Classification

Physical Hazards

None***

Health Hazard

Aspiration Toxicity
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Skin sensitization

Category 1***
Category 2***
Category 2A***
Category 1B***

Other hazards

None

Labeling

Signal Word

DANGER***



Hazard statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H304 - May be fatal if swallowed and enters airways***

Precautionary Statements

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
P261 - Avoid breathing vapor or mist.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
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.
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P501 - Dispose of contents and container in accordance with applicable local regulations.***

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
1-Tetradecene***	1120-36-1	40-70
D-Limonene***	5989-27-5	1-5

*The exact percentage (concentration) of composition has been withheld as a trade secret***

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

Skin Contact	develops and persists.*** 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 *** 201*** °F*** /*** 94*** °C***	Method SetaFlash***	
Flammability Limits in Air %: Solvent mixture.***	Upper: 6.1***	Lower: 0.5***
Suitable Extinguishing Media		
Foam. Alcohol-resistant 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		
Material can create slippery conditions.***		
Protective Equipment and Precautions for Firefighters		
As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.***		
NFPA	Health 2***	Flammability 1***
HMIS -	Health 2***	Flammability 1***
		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	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 containers tightly closed in a dry, cool and well-ventilated place.***			
Storage Temperature	Minimum	*** 35*** °F*** /*** 2*** °C***	Maximum	*** 130*** °F*** /*** 54*** °C***
Storage Conditions	Indoor	X***	Outdoor	Heated
				Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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	Safety glasses with side-shields.***
Skin Protection	Wear suitable protective clothing, Impervious gloves.***
Respiratory Protection	In case of inadequate ventilation wear respiratory protection.***
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	Straw to Amber***	Odor	Citrus***
Odor Threshold	Not applicable	Appearance	Transparent***
pH	Not applicable***	Specific Gravity	*** 0.808***
Evaporation Rate	0.01 (Butyl acetate=1)***	Percent Volatile (Volume)	89.1***
VOC Content (%)	2***	VOC Photoreactive (Y/N)	Yes***
VOC Max Use Dilution (g/L)	10***	VOC Max Use Dilution (wt%)	0.5***

VOC Content (g/L)	16.2***	Vapor Pressure	0.12 mmHg @ 70°F***
Vapor Density	5.2 (Air = 1.0)***	Solubility	Emulsifiable***
n-Octanol/Water Partition	No data available	Melting Point/Range	No data available
Decomposition Temperature	No data available	Boiling Point/Range	No data available***
Flammability (solid, gas)	No data available	Method	SetaFlash***
Flash Point	*** 201*** °F*** / *** 94*** °C***	Upper: 6.1*** Lower: 0.5***	
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Solvent mixture***		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.***
Conditions to Avoid	None known.***
Incompatible Products	Strong oxidizing agents, Strong acids, Strong bases, Halogenated hydrocarbon, Rubber products, Vinyl compounds.***
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx).***
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

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 Skin contact, Skin Absorption.***

Acute Effects:

Eyes	Causes serious eye irritation.***
Skin	Causes skin irritation. May cause allergic skin reaction.***
Inhalation	May cause irritation of respiratory tract.***
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

Target Organ Effects

Aggravated Medical Conditions

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
1-Tetradecene*** 1120-36-1	> 10000 mg/kg (Rat) = 21300 mg/kg (Rat)	> 10000 mg/kg (Rabbit) = 10000 mg/kg (Rabbit) > 2430 mg/kg (Rabbit)	No data available	No data available	No data available
D-Limonene*** 5989-27-5	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	No data available	No data available	No data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
D-Limonene*** 5989-27-5	No data available	Skin sensitization	No data available	No data available	Immune system

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.***

Component	ACGIH	IARC	NTP	OSHA	Other
D-Limonene*** 5989-27-5	not applicable	Group 3	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information ***

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
1-Tetradecene***	EC50 22 - 24 mg/L Pseudokirchneriella	LC50 10.0 - 32.0 mg/L Poecilia reticulata 96 h	EC50 > 10000 mg/L 6 h	0.74: 48 h Daphnia magna mg/L EC50	N/A

	subcapitata 96 h	LC50 1 - 3.2 mg/L Brachydanio rerio 96 h LC50 = 1.06 mg/L Pimephales promelas 96 h LC50 = 0.39 mg/L Oncorhynchus mykiss 96 h			
D-Limonene***	No information available.	LC50 0.619 - 0.796 mg/L Pimephales promelas 96 h LC50 = 35 mg/L Oncorhynchus mykiss 96 h	No information available	No information available.	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 Not regulated***
TDG Not regulated***
ICAO Not regulated***
IATA Not regulated***
IMDG/IMO Not regulated***

15. REGULATORY INFORMATION

Inventories
TSCA
DSL
U.S. Federal Regulations

Complies
Complies

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***	No***	No***	No	No

CERCLA

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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