

Safety Data Sheet: TEKUSOLV II PLUS AEROSOL

Supersedes Date: 12/17/2019

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: TEKUSOLV II PLUS AEROSOL

Recommended use Cleaning agent

Information on Manufacturer

CERTIFIED LABS, DIV. OF NCH CORP.

BOX 152170

IRVING, TEXAS 75015

Product Code: 5403

Chemical nature Solvent blend

Emergency Telephone

Telephone inquiry

972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless

Physical state Liquid

Odor Citrus

GHS

Classification

Physical Hazards

Flammable Aerosols

Gases under pressure

Category 2

Compressed Gas

Health Hazard

Aspiration Toxicity

Skin sensitization

Category 1

Category 1B

Other hazards

None

Labeling

Signal Word

DANGER



Hazard statements

H223 - Flammable aerosol

H304 - May be fatal if swallowed and enters airways

H317 - May cause an allergic skin reaction

H280 - Contains gas under pressure; may explode if heated

Precautionary Statements

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use

P280 - Wear protective gloves, protective clothing and eye protection.

P261 - Avoid breathing vapors, mist or gas

P270 - Do not eat, drink or smoke when using this product

P272 - Contaminated work clothing should not be allowed out of the workplace

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.

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

P501 - Dispose of contents and container in accordance with applicable regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
1-Tetradecene	1120-36-1	80-100
D-Limonene	5989-27-5	3-7
Carbon dioxide	124-38-9	1-5

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

4. FIRST AID MEASURES

General advice	Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.
Eye Contact	No hazards which require special first aid measures.
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	No hazards which require special first aid measures.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur.
Notes to physician	Treat symptomatically. 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 Seta closed cup	
Flammability Limits in Air %: Solvent mixture.	Upper: 6.1	Lower: 0.7
Suitable Extinguishing Media		
Carbon dioxide (CO ₂). Dry chemical. Water spray. Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Specific hazards arising from the chemical		
Flammable. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Flame extension: >24 inches / >61 cm and Burnback: 3 inch / 7.5 cm. 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.		
Aerosol Level (NFPA 30B) -	1	
NFPA	Health 2	Flammability 1
HMIS -	Health 2	Flammability 4
		Instability 0
		Physical Hazard 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Take precautionary measures against static discharges. Remove all sources of ignition. 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 breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.
Storage	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.
Storage Temperature	Minimum 35 °F / 2 °C
Storage Conditions	Indoor X Outdoor Maximum Heated 120 °F / 49 °C Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Carbon dioxide	TWA: 5000 ppm STEL: 30000 ppm	TWA: 5000 ppm TWA: 9000 mg/m ³	40000 ppm STEL 30000 ppm STEL 54000 mg/m ³ TWA: 5000 ppm TWA: 9000 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	Safety glasses with side-shields.
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Wear protective gloves/clothing. 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	Colorless	Odor	Citrus
Odor Threshold	Not applicable	Appearance	Transparent
pH	Not applicable	Specific Gravity	0.682
Evaporation Rate	60 (Butyl acetate=1)	Percent Volatile (Volume)	100
VOC Content (%)	3.9	VOC Content (g/L)	27
Vapor pressure	6525 mmHg @ 70°F	Vapor Density	1.5 (Air = 1.0)
Solubility	Negligible	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	> 212 °F / > 100 °C	Flammability (solid, gas)	No data available
Flash Point	> 201 °F / > 94 °C	Method	Seta closed cup
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, Protect from direct sunlight and extremes of temperatures.
Incompatible Products	Strong oxidizing agents.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides.
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	Low hazard for usual industrial or commercial handling.
Skin	May cause allergic skin reaction.
Inhalation	Low hazard for usual industrial or commercial handling.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage.

Chronic Toxicity

Target Organ Effects: May cause sensitization by skin contact.

Aggravated Medical Conditions: Cardiovascular system, Immune system, Respiratory system.

Component Information

Acute Toxicity

Chemical name	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) = 5200 mg/kg (Rat) = 5300 mg/kg (Rat)	> 5 g/kg (Rabbit)	No data available	No data available	No data available

Chronic Toxicity

Chemical name	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
Carbon dioxide 124-38-9	No data available	No data available	No data available	No data available	Cardiovascular system; Respiratory system

Carcinogenicity

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

Chemical name	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.

Additional Ecological Information: No information available

Component Information

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
1-Tetradecene	EC50 22 - 24 mg/L Pseudokirchneriella subcapitata 96 h	LC50 10.0 - 32.0 mg/L Poecilia reticulata 96 h LC50 1 - 3.2 mg/L Brachydanio rerio 96 h LC50 = 0.39 mg/L Oncorhynchus mykiss 96 h LC50 = 1.06 mg/L Pimephales promelas 96 h	EC50 > 10000 mg/L 6 h	0.74: 48 h Daphnia magna mg/L EC50 0.68: 96 h Daphnia magna mg/L LC50	N/A
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. Contents under pressure. Do not puncture. Empty remaining contents. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name AEROSOLS, FLAMMABLE
 Hazard Class 2.1
 UN-No UN1950
 Description UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD QTY

TDG

Proper shipping name AEROSOLS, FLAMMABLE
 Hazard Class 2.1
 UN-No UN1950
 Description UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD QTY

ICAO

UN-No UN1950
 Proper Shipping Name AEROSOLS, FLAMMABLE
 Hazard Class 2.1
 Shipping Description UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD QTY

IATA

UN-No UN1950
 Proper Shipping Name AEROSOLS, FLAMMABLE
 Hazard Class 2.1
 Shipping Description UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD QTY

IMDG/IMO

UN proper shipping name AEROSOLS
 Hazard Class 2.1
 UN Number UN1950
 EmS No. F-D, S-U
 Description UN1950, AEROSOLS, 2.1, LTD QTY

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

See Section 2

CERCLA**16. OTHER INFORMATION****Prepared By**

Pamela Starkey

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Reason for Revision

No information available.

Glossary

No information available.

List of References.

No information available.

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