Material Safety Data Sheet: TEKUSOLV II

Supercedes Date 06/30/2010 **Issuing Date** 04/25/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name TEKUSOLV II
Recommended use Solvent
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 0945
Chemical nature Solvent mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
WARNING
Causes skin irritation
Causes eye irritation
May cause allergic skin reaction
May be harmful if inhaled
May cause allergic respiratory reaction
May be harmful if swallowed

Color Colorless **Physical State** Liquid **Odor** Orange

Potential Health Effects

Principle Route of Exposure	Skin contact, Eye contact.
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 central nervous system depression. Inhalation may cause central nervous system effects. 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. 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	Liver, Kidney, Central nervous system, Immune system, Lungs.
Aggravated Medical Conditions	Liver disorders, Kidney disorders, Neurological disorders, Respiratory system, Skin 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
2-Butyl-1-decene	51655-65-3
2-Ethyl-1-dodecene	19780-34-8
2-Hexyl-1-octene	19780-80-4

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	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
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 > 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
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
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** 1	**Instability** 0
HMIS	**Health** 2	**Flammability** 1	**Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. 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 Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Storage Temperature	**Minimum**	35 °F / 2 °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
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
2-Hexyl-1-octene	No data available	No data available	No data available

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 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**	Orange
Appearance	Transparent	**pH**	Not applicable
Specific Gravity	0.776	**Evaporation Rate**	0.01 (Butyl acetate=1)
Percent Volatile (Volume)	100	**VOC Content (%)**	100
VOC Photoreactive (Y/N)	Yes	**VOC Content (g/L)**	776
Vapor Pressure	0.21 mmHg @ 70°F	**Vapor Density**	4.0
Solubility	Negligible	**Boiling Point/Range**	463 °F / 239 °C

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.
Conditions to Avoid None known
Incompatible Products Strong oxidizing agents, Acids.

Hazardous Decomposition Products Carbon oxides
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
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
2-Hexyl-1-octene	no data available	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, Respiratory sensitization	no data available	no data available	CNS, immune system, lungs, liver, kidneys
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
2-Hexyl-1-octene	no data available	no data available	no data available	no data available	no data available

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
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
2-Hexyl-1-octene	not applicable	not applicable	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
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
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
2-Hexyl-1-octene	no data available	no data available	no data available	no data 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 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	No	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
1-Tetradecene	Not applicable	Not applicable
D-Limonene	Not applicable	Not applicable
2-Butyl-1-decene	Not applicable	Not applicable
2-Ethyl-1-dodecene	Not applicable	Not applicable
2-Hexyl-1-octene	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
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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