

Material Safety Data Sheet: TEKUSOLV, MM

Supersedes Date 05/23/2013

Issuing Date 08/29/2014

1. PRODUCT AND COMPANY IDENTIFICATION

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

Product Code 0382
Chemical nature Petroleum distillates
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 cause allergic respiratory reaction
May be harmful if inhaled
May be harmful if swallowed

Color Colorless

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

Odor Citrus

Skin contact, Eye contact, Inhalation.
Inhalation, Skin Absorption.

Causes eye irritation.

Causes skin irritation. May cause allergic skin reaction.

Irritating to respiratory system. 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. May cause allergic respiratory reaction.

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 of susceptible persons. Liver and kidney injuries may occur.

Respiratory system, Immune system, Liver, Kidney, Central nervous system, Skin.

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

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS-No |
|---|------------|
| Petroleum distillates, hydrotreated light | 64742-47-8 |
| D-Limonene | 5989-27-5 |

4. FIRST AID MEASURES

General advice

Eye Contact

Skin Contact

Inhalation

Ingestion

Notes to physician

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

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

Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point 141 °F / 61 °C

Autoignition Temperature No information available.

Method

Closed cup

Flammability Limits in Air % Solvent mixture.

Upper 7.0

Lower 0.6

Suitable Extinguishing MediaFoam. Water spray. Carbon dioxide (CO₂). Dry chemical. 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. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. 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**

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**

120 °F / 49 °C

Storage Conditions**Indoor** X**Outdoor****Heated****Refrigerated****8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Guidelines**

| Component | ACGIH TLV | OSHA PEL | NIOSH |
|---|---------------------------|-------------------|-------------------|
| Petroleum distillates, hydrotreated light | 525 mg/m ³ TWA | No data available | No data available |

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. 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 |
| Appearance | Transparent | pH | No data available |
| Specific Gravity | 0.82 | Evaporation Rate | 0.03 (Butyl acetate=1) |
| Percent Volatile (Volume) | 100 | VOC Content (%) | 100 |
| VOC Photoreactive (Y/N) | Yes | VOC Content (g/L) | 819 |
| Vapor Pressure | 0.51 mmHg @ 70°F | Vapor Density | 4.9 (Air = 1.0) |
| Solubility | Negligible | Melting Point/Range | |
| Boiling Point/Range | 424 °F / 218 °C | | |

10. STABILITY AND REACTIVITY**Chemical Stability**

Stable. Hazardous polymerization does not occur.

Conditions to Avoid

None known

Incompatible Products

Strong oxidizing agents, Strong acids and strong bases, Halogenated hydrocarbon, Vinyl compounds, Fluorinated hydrocarbons.

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 |
|---|----------------------|-------------------------|-------------------|-------------------|-------------------|
| Petroleum distillates, hydrotreated light | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | no data available | no data available | no data available |
| D-Limonene | = 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 | no data available | Skin sensitization, Respiratory sensitization | no data available | no data available | CNS, immune system, lungs, liver, kidneys |

Carcinogenicity

There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION**Product Information**

No information available.

Component Information

| Component | Toxicity to Algae | Toxicity to Fish | Microtox | Water Flea | log Pow |
|---|-------------------|---|-------------------|--|---------|
| Petroleum distillates, hydrotreated light | no data available | LC50 = 2.2 mg/L Lepomis macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h LC50 = 45 mg/L Pimephales promelas 96 h | no data available | LC50 4720 mg/L Dendroereides heteropoda 96 h | 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 |

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**

<119 Gals; NOT REGULATED >119 gals; Combustible Liquid, N.O.S., (Aliphatic petroleum distillates, d'limonene)

Hazard Class

3

UN-No

NA1993

Packing Group

III

Description

NA1993, Combustible Liquid, N.O.S., (Aliphatic petroleum distillates, d'limonene), 3, III

TDG**Proper shipping name**

<119 gals; NOT REGULATED >119 gals; Combustible Liquid, N.O.S., (Aliphatic petroleum distillates, d'limonene)

Hazard Class

3

UN-No

NA1993

Packing Group

III

Description

NA1993, Combustible Liquid, N.O.S., (Aliphatic petroleum distillates, d'limonene), 3, III

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.

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

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

Adrienne McKee

Supersedes Date

05/23/2013

Issuing Date

08/29/2014

Reason for Revision

No information available.

Glossary

No information available.

List of References.

No information available.

CERTIFIED LABS, DIV. OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.