

MATERIAL SAFETY DATA SHEET TEKUSOLV II

DATE OF ISSUE: 07/08/1999

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SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms: N/A Trade Name & Synonyms: TEKUSOLV II

Chemical Family: ALIPHATIC/LIMONENE BLEND Formula Mixture: X

Manufacturer's Name: CERTIFIED LABS, DIV. OF NCH CORP.

Address: BOX 152170
IRVING, TEXAS 75015

Prepared By: R STOLLEY/CHEMIST
Product Code Number: 0945
Emergency Phone Number: 800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS:

Chemical Name (Ingredients): 1-TETRADECENE
Hazard: IRRITANT
TLV: NOT EST. 1
PEL: NOT EST. 2
STEL: NOT EST.
CAS#: 1120-36-1

Chemical Name (Ingredients): D-LIMONENE
Hazard: IRR./SENS.
TLV: NOT EST. 1
PEL: NOT EST. 2
STEL: NOT EST.
CAS#: 5989-27-5

SECTION III - PHYSICAL DATA

Boiling Point (f): 463
Specific Gravity (H2O=1): 0.77
Vapor Pressure (MM HG): 0.13
Color: WATER-WHITE
Vapor Density (Air=1): 5.2
Odor: CITRUS
PH @ 100%: N/A
Clarity: TRANSPARENT
Volatile by Volume: 100
Evaporation Rate (BU A/C=1): <0.1

H2O Solubility: NEGLIGIBLE
Viscosity: NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point: 201 F. / PMCC
Flammable Limits: D-LIMONENE LEL: 0.7 UEL:6.1

Extinguishing Media:

Foam: X Alcohol Foam: CO2: X
Dry Chemical: X Water Spray: X Other:

Special Fire Fighting Procedures:

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.
COOL FIRE EXPOSED CONTAINERS WITH WATER TO PREVENT RUPTURE. DO NOT USE A
DIRECT STREAM OF WATER AS SPATTERING MAY RESULT.

Unusual Fire and Explosion Hazards:

IF PRODUCT IS HEATED GREATER THAN 201° F., VAPORS MAY TRAVEL TO
DISTANT SOURCES OF IGNITION AND FLAHSBACK. PRODUCT MAY PRODUCE A FLOATING
FIRE HAZARD AS LIQUID FLOATS ON WATER.

Aerosol Level (NFPA 30B): N/A

NFPA 704 Hazard Rating:

(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)
Health: 1 Flammability: 1 Instability: 0 Special:

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

-Acute(Short Term Exposure)

EYE: CAUSES IRRITATION SUCH AS REDNESS AND TEARING. SKIN: MAY CAUSE
IRRITATION AND MAY RESULT IN AN ALLERGIC REACTION IN INDIVIDUALS SENSITIVE
TO PRODUCTS CONTAINING ORANGE OIL. FREQUENT OR PROLONGED CONTACT CAN
LEAD TO REDNESS AND DERMATITIS. INHALATION: INHALATION MAY BE IRRITATING TO
THE RESPIRATORY TRACT. INHALATION OF HIGH CONCENTRATIONS OF VAPOR DUE TO
ELEVATED TEMPERATURES CAN CAUSE ANESTHESIA, DROWZINESS, UNCONSCIOUSNESS,
CNS EFFECTS AND DEATH . INDIVIDUALS SENSITIVE TO ORANGE OIL MAY EXPERIENCE
ALLERGIC RESPIRATORY REACTION IF MIST IS INHALED OR IF HIGH VAPOR
CONCENTRATIONS ARE INHALED. INGESTION: INGESTION AND SUBSEQUENT VOMITING
OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH
CAN CAUSE DAMAGE AND MAY BE FATAL.

-Chronic (Long Term Exposure)

INDIVIDUALS SENSITIVE TO ORANGE OIL MAY BECOME SENSITIZED AND MAY HAVE A
MORE PRONOUNCED ALLERGIC DERMAL OR RESPIRATORY REACTION IN SUBSEQUENT
EXPOSURES. TARGET ORGANS: CENTRAL NERVOUS SYSTEM, BLOOD-FORMING ORGANS
CONDITIONS AGGRIVATED BY EXPOSURE: PRE-EXISTING DERMAL AND RESPIRATORY
DISEASES SUCH AS DERMATITIS AND EMPHYSEMA.

Primary Routes of Entry: Inhalation: X Ingestion: Absorption: X

Emergency and First Aid Procedures:

-Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

-Eye Contact:

RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Skin Contact:

WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. REMOVE AND CLEAN CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO A CONVULSING OR UNCONSCIOUS PERSON.

-Notes to Physician:

N/A

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC: No

NTP: No

OSHA: No

ACGIH: No

OTHER: No

DATA ON PRODUCT AS A WHOLE

ORL-RAT LD50: >5000MG/KG 3.

VOC INFORMATION: VOC CONTENT:770 GRAMS/LITER.

THIS MATERIAL IS PHOTOCHEMICALLY REACTIVE.

SECTION VII - REACTIVITY DATA

Stability:

Stable: X

Unstable:

Conditions to Avoid: AVOID HEAT, SPARKS OR OPEN FLAMES.

Incompatibility (Materials to Avoid):

STRONG OXIDIZERS SUCH AS CHLORINE BLEACH OR CONCENTRATED OXYGEN, ACIDS AND IODINE PENTAFLUOROETHYLENE.

Hazardous Decomposition Products:

OXIDES OF CARBON, FUMES AND ACRID SMOKE.

Hazardous Polymerization:

May Occur:

Will Not Occur: X

Conditions to Avoid: N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:
ELIMINATE ALL SOURCES OF IGNITION. DIKE AND CONTAIN SPILL IF SAFE TO DO SO. USE ONLY NON-SPARKING EQUIPMENT. ABSORB WITH AN INERT MATERIAL AND TRANSFER INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. WEAR APPROPRIATE PROTECTIVE CLOTHING.

Waste Disposal Method(s):
DISPOSE OF THE PRODUCT AND ANY RESULTING SLUDGE THROUGH USE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Neutralizing Agent:
N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:
GENERAL VENTILATION IS NORMALLY ADEQUATE. LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE MISTS OR VAPORS.

Respiratory Protection:
NONE REQUIRED UNDER NORMAL CONDITIONS OF USE. A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS OR WHERE MISTING EXISTS.

Glove Protection:
NEOPRENE RUBBER OR NITRILE GLOVES SHOULD BE WORN.

Eye Protection:
SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

Other Protection:
SOLVENT-RESISTANT APRON OR OTHER IMPERVIOUS CLOTHING TO AVOID CONTAMINATING REGULAR CLOTHING

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors: X Outdoors: Heated: Refrigerated:

Minimum Temperature: 0 F. Maximum Temperature: 100 F.

Precautions to be taken in Handling and Storing:
KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT HANDLE OR STORE NEAR HEAT, SPARKS, FLAMES, OR STRONG OXIDANTS. ADEQUATE VENTILATION IS REQUIRED

Other Precautions:
KEEP OUT OF REACH OF CHILDREN. READ ENTIRE LABEL BEFORE USING PRODUCT.

SECTION XI - REGULATORY INFORMATION

Chemical Name CAS Number Upper % Limit

Those Ingredients listed above are subject to the reporting requirements of 313 of Title III and of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1999.
2. OSHA PEL
3. INDEPENDENT TESTING LABORATORY
ALL OF THE COMPONENTS WITHIN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.

IRR:IRRITANT, FLAM/FLAMM:FLAMMABLE, COMB:COMBUSTIBLE, CORR:CORROSIVE
CARC:CARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED,
COC:CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN CLOSED CUP, TCC:TAGLIABUE
CLOSEDCUP, LEL:LOWER EXPLOSION LIMIT, UEL:UPPER EXPLOSION LIMIT,
NFPA:NATIONAL FIRE PROTECTION ASSOCIATION, IARC:INTERNATIONAL AGENCY FOR
THE RESEARCH ON CANCER, NTP:NATIONAL TOXICOLOGY PROGRAM,
OSHA:OCCUPATIONAL
SAFETY & HEALTH ADMINISTRATION, ACHGIH:AMERICAN CONFERENCE OF
GOVERNMENTAL
INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE
LEVEL, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE,
MUT:MUTAGENIC, ASPHYX:ASPHYXIANT, PNOC: PARTICULATES NOT OTHERWISE CLASSI-
FIED

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