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DATE OF ISSUE 2/12/2001
SUPERSEDES 2/04/2000

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms

Trade Name & Synonyms

Chemical Family:
AQUEOUS PERMETHRIN SOLUTION

Formula Mixture --> X

Manufacturer's Name:
CERTIFIED LABS, DIV. OF NCH CORP.Address:
BOX 152170
IRVING, TEXAS 75015Prepared By:
C Williamson/ChemistProduct Code Number
5414Emergency Phone Number
800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
HYDROTREATED LIGHT PETROLEUM DISTILLATE	IRRITANT	5 MG/M3\$ 1	5 MG/M3\$ 2	NOT EST.	54742-47-8
PROPANE	FLAM/ASPHX	2500 PPM 1	1000 PPM 2	NOT EST.	74-98-6
ISOBUTANE	FLAM/IRR	NOT EST. 1	NOT EST. 2	NOT EST.	75-28-5
\$ OIL MIST VALUES					

SECTION III - PHYSICAL DATA

Boiling Point (F):	212	Specific Gravity (H20=1):	0.97
Vapor Pressure (MM HG):	18	Color:	WHITE
Vapor Density (Air=1):	0.63	Odor:	MILD PETROLEUM
PH @ 100% :	6.0-8.0	Clarity:	OPAQUE
Volatile by Volume:	98.7	Evaporation Rate (BU A/C=1):	0.54
H2O Solubility:	APPRECIABLE	Viscosity:	SEMI-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point >200 F / SETAFLASH	Flammable Limits ISOBUTANE	LEL 1.8%	UEL 9%
Extinguishing Media X <--Foam X <--Alcohol Foam X <--CO2 X <--Dry Chemical X <--Water Spray <--Other			
Special Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE.			
Unusual Fire and Explosion Hazards: FIRE FIGHTING SHOULD BE DONE FROM UPWIND TO MINIMIZE POSSIBILITY OF EXPOSURE TO PESTICIDE, SMOKE AND FUMES. EVACUATE PEOPLE DOWNWIND AS APPROPRIATE. AEROSOL CANS CAN EXPLODE WHEN HEATED. FLAME EXTENSION IS 0 INCHES, BURNBACK IS 0 INCHES.			
Aerosol Level (NFPA 30B): 1			
NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme) 1 <--Health 1 <--Flammability 0 <--Instability <--Special			

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:
NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

-Acute (Short Term Exposure)

SKIN CONTACT: PROLONGED CONTACT MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS. EYE CONTACT: MAY CAUSE IRRITATION SEEN AS TEARING AND REDNESS.
INHALATION: AT LOW LEVELS, NO HARMFUL EFFECTS ARE EXPECTED. AT HIGH VAPOR CONCENTRATIONS, INHALATION CAUSES HEADACHE, DIZZINESS, SNEEZING, DROWSINESS, WEAKNESS, COUGHING, NAUSEA, PERIPHERAL NUMBNESS, PULMONARY IRRITATION CARDIAC ARRHYTHMIA WITH POSSIBLE ANESTHETIC EFFECTS FROM CENTRAL NERVOUS SYSTEM DEPRESSION (INTOXICATION) AND POSSIBLE DEATH MAY OCCUR. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA.

-Chronic (Long Term Exposure)

HUMAN CHRONIC EFFECTS KNOWN. TARGET ORGANS: NONE KNOWN. THERE IS NO PRIMARY ROUTE OF ENTRY INTO THE BODY. THE PRIMARY ROUTE OF EXPOSURE IS SKIN AND EYE CONTACT. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS.

Primary Routes of Entry: <--Inhalation <--Ingestion <--Absorption

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.

SECTION V - HEALTH HAZARD DATA (Continued)

-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. 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. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

-Notes to Physician:
THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:
IARC--> No NTP--> No OSHA--> No ACGIH--> No OTHER--> No

HYDROTREATED LIGHT PETROLEUM DISTILLATES (BASED ON SIMILAR COMPOUNDS)
ORL-RAT-LD50: >5000 MG/KG 3.
SKN-RBT-LD50: >2000 MG/KG 3.
PROPANE AND ISOBUTANE MIXTURE
NO APPARENT ILL EFFECTS IN BREATHING CONCENTRATIONS OF 5% FOR 2 HOURS. 4.
CAUSES DROWSINESS IN SHORT TIME IN CONCENTRATIONS OF 1%. 4.

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable
Conditions to Avoid:
KEEP AWAY FROM EXCESSIVE HEAT, OPEN FLAME AND ANY SOURCE OF IGNITION. EXPOSURE TO TEMPERATURES ABOVE 130° F/64° C MAY CAUSE BURSTING.

Incompatibility (Materials to Avoid):
STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE. REDUCING AGENTS SUCH AS ACIDS AND BASES.

Hazardous Decomposition Products:
OXIDES OF CARBON.

Hazardous Polymerization: <--May Occur X <--Will Not Occur
Conditions to Avoid:
NONE KNOWN.

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:
DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR A SMALL SPILL, ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. WEAR APPROPRIATE PROTECTIVE CLOTHING. PREVENT PRODUCT FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER.

Waste Disposal Method(s):
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. IF RECYCLING IS NOT AVAILABLE, WRAP THE CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN TRASH. DO NOT INCINERATE OR PUNCTURE.

Neutralizing Agent:
NONE KNOWN.

SECTION IX - SPECIAL PROTECTION INFORMATION

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

Respiratory Protection:
A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL OR WHERE MISTING EXISTS.

Glove Protection:
NEOPRENE OR NITRILE RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY.

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

Other Protection:
NONE UNDER NORMAL CONDITIONS OF USE.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X Outdoors--> Heated--> Refrigerated-->
Minimum Temperature: 35°F Maximum Temperature: 120°F

Precautions to be Taken in Handling and Storing:
STORE IN A COOL, DRY AREA. DO NOT TRANSPORT OR STORE BELOW 32°F/0°C. DO NOT ALLOW PESTICIDE TO CONTAMINATE FOOD, FEED, OR NATURAL BODIES OF WATER. USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY AND OPEN FLAME. CONTENTS UNDER PRESSURE.

Other Precautions:
KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS. DO NOT APPLY THIS PRODUCT TO ENERGIZED ELECTRICAL EQUIPMENT.

SECTION XI - REGULATORY INFORMATION

SECTION XI - REGULATORY INFORMATION (Continued)

Chemical Name
None

CAS Number

Upper & Limit

The ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1980 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer.
This MSDS is not intended for users in the state of California.

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2000.
 2. OSHA PEL.
 3. SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, EIGHTH EDITION, RICHARD J. LEWIS, SR.
 4. VENDOR'S MSDS.
- ALL COMPONENTS IN 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, FMCC: PENSKY-MARTIN CLOSED CUP, TCC: TAGLIABUE
CLOSED CUP, 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, ACGIH: AMERICAN
CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV: THRESHOLD LIMIT
VALUE, PEL: PERMISSIBLE EXPOSURE LIMIT, STEL: SHORT-TERM EXPOSURE LIMIT,
MLD: MILD, MOD: MODERATE, SEV: SEVERE, MUT: MUTAGENIC, ASPHYX: ASPHYXANT,
PNOC: PARTICULATES NOT OTHERWISE CLASSIFIED, SDT: STANDARD DRAIZE TEST, ORL:
ORAL, HMN: HUMAN, IHL: INHALATION

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