

MATERIAL SAFETY DATA SHEET: DARATHENE

Section I - General Information

(000000-000000- - 0013)

Date of Issue:

4/28/1992 12:00:00 AM

Chemical Name & Synonyms:

N/A

Chemical Family:

MIXTURE OF ALIPHATIC AND CHLORINATED SOLVENTS

Manufacturer Name:

CERTIFIED LABS, DIV. OF NCH CORP.

Manufacturer Address:

BOX 152170
IRVING, TEXAS 75015

Prepared By:

G ZIMMERMAN/CHEMIST

Supercedes:

1/2/1992 12:00:00 AM

Trade Name & Synonyms:

DARATHENE

Formula is a mixture: [v]

Product Code Number:

0013

Emergency Phone Number:

800-424-9300

Section II - Hazardous Ingredients

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)

ALIPHATIC PETROLEUM
DISTILLATE
1,1,1 TRICHLOROETHANE
ORGANIC BARIUM SALTS
1,3 DIOXOLANE

Hazard

FLAMM.
IRRITANT
IRRITANT
IRRITANT

TLV

300PPM 1.
350PPM 1.
N/E 1.
N/E 1.

PEL

300PPM 2.
350PPM 2.
N/E 2.
N/E 2.

STEL

400
450PPM
N/E
646-06-0

CAS #

8032-32-4
71-55-6
N/E
646-06-0

Section IIa - Non-Hazardous Ingredients

(NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE)

Secret Registry #: 409363- 5223P

Section III - Physical Data

Boiling Point (?F):IBP 105
Vapor Pressure (mm Hg):.35
Vapor Density (Air=1):4.5
pH @ 100% :N/A
% Volatile by Volume:91
H₂O Solubility:NEGLIGIBLE

Specific Gravity (H₂O=1):0.925
Color:AMBER
Odor:CHLORINATED SOLVENT
Clarity:SLIGHTLY CLOUDY
Evaporation Rate (BuAc=1):0.10
Viscosity:NON-VISCOUS

Section IV - Fire and Explosion Hazard

Flash Point: 80 F.
Flammable Limits:
LEL: N/A

Method Used: T.C.C.C.

UEL: N/A

Aerosol Level (NFPA 30B): N/A

Extinguishing Media:
[v] Foam [] Alcohol Foam [v] CO2
[v] Dry Chemical [] Water Spray [] Other

NFPA 704 Hazard Rating:
4-Extreme Health: 3
3-High Flammability: 3
2-Moderate Instability: 0
1-Slight Special:
0-Insignificant

Special Fire Fighting Procedures:

HIGH CONCENTRATION IN CLOSED AREAS CAN BURN, FLAME OR ARC. SHOULD NOT BE USED IN A CLOSED AREA.

Unusual Fire and Explosion Hazards:

FIRE FIGHTING SHOULD BE DONE FROM UPWIND TO MINIMIZE POSSIBILITY OF EXPOSURE TO SMOKE AND FUMES. EVACUATE PEOPLE DOWNWIND AS APPROPRIATE. MAY PRODUCE PHOSGENE WHEN EXPOSED TO HIGH HEAT.

Section V - Health and Hazard Data

Threshold Limit Value:

NOT ESTABLISH FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

Acute: (Short Term Exposure)

IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES. SKIN EXPOSURE - LOCAL IRRITATION POSSIBLE FOLLOWED BY TOXIC EFFECTS. INHALATION - EUPHORIA, HEADACHE, DIZZINESS, AND BURNING SENSATION IN CHEST. INGESTION - IRRITATION OF MOUTH, THROAT AND ESOPHAGUS. TOXIC EFFECTS OF NAUSEA, RAPID BREATHING, DROWSINESS. EYE EXPOSURE - LOCAL IRRITATION.

Chronic: (Long Term Exposure)

TOXIC BY PROLONGED INHALATION. TOXIC BY PROLONGED CONTACT WITH SKIN OR MUCOUS MEMBRANES. MAJOR RESPONSE IS CENTRAL NERVOUS SYSTEM DEPRESSION. CAN CAUSE EYE DAMAGE. TARGET ORGANS IN TEST ANIMALS - LUNGS, KIDNEYS, AND LIVER.

Primary Routes of Entry
[v] Inhalation [] Ingestion [v] Absorption

Emergency First Aid Procedures:

Inhalation:

MOVE TO FRESH AIR AND TREAT SYMPTOMATICALLY. GIVE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPS. SEEK MEDICAL ATTENTION.

Eye Contact:

FLUSH WITH WATER 15 MINUTES. SEE A PHYSICIAN IF IRRITATION PERSISTS.

Skin Contact:

WASH WITH SOAP AND WATER. APPLY AN EMOLIENT RICH CREAM. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.

Ingestion:

DO NOT INDUCE VOMITING EVEN IF VOMITING OCCURS. IF IT OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS. GET MEDICAL ATTENTION

IMMEDIATELY.

Notes to Physician:

DEPENDING ON THE AMOUNT INGESTED AND RETAINED AS WELL AS THE TOXICITY OF THE PRODUCT, GASTRIC LAVAGE SHOULD BE CONSIDERED. KEEP PATIENT'S HEAD BELOW HIPS TO PREVENT PULMONARY ASPIRATION. IF COMATOSE, A CUPPED INDOTRACHEAL TUBE WILL PREVENT ASPIRATION. CONSULT A POISON CONTROL CENTER.

Section VI - Toxicity Information

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC NTP OSHA ACGIH Other

ALIPHATIC PETROLEUM DISTILLATE
 EYE-HMN 880PPM/15M 3.
 UNK-HMN TCLO: 1470MG/KG 3.
 IPR-RAT LDLO: 8560MG/KG 3.
 1,1,1-TRICHLOROETHANE
 ORL-HMN TDLO: 670 MG/KG TFX:CN 3.
 IHL-HMN TCLO: 920 PPM/MG TFX:CSN 3.
 ORL-RAT LD50: 10,300 MG/KG 3.
 1-2 DIOXALANE
 ORL RAT LD50 3000MG/KG 3.
 SKN RBT LD50 8400MG/KG 3.

Section VII - Reactivity Data

Stability

Stable Unstable

Conditions to Avoid:

OPEN FLAMES

Hazardous Polymerization

Will not occur May occur

Conditions to Avoid:

N/A

Incompatibility (Materials to Avoid):

STRONG ALKALIS, ACIDS AND SELECTED AMINE.

Hazardous Decomposition Products:

AT DECOMPOSITION TEMPERATURES THE PRODUCT CAN RELEASE CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE AND PHOSGENE.

Section VIII - Spill Or Leak Procedures

Steps to be Taken if Material is Released or Spilled:

REMOVE ALL SOURCES OF IGNITION. PREVENT FROM ENTERING SEWER OR WATER SOURCES. VENTILATE ENCLOSED SPACE. WEAR RESPIRATOR. CLEAN UP (ANY ELECTRIC CLEANING EQUIPMENT-MUST BE EXPLOSION-PROOF) OR SOAK UP WITH SAND, COTTON WASTE OR OTHER ABSORBANT MATERIAL.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL POLLUTION CONTROL REGULATIONS.

Neutralizing Agent:

N/A

Section IX - Special Protection Information

Required Ventilation:

SUFFICIENT VENTILATION TO BE EQUAL TO OR BELOW THE ALLOWABLE CONCENTRATION.

Respiratory Protection:

TYPICAL USE OF THIS PRODUCT DOES NOT REQUIRE THE USE OF A RESPIRATOR. IF PRODUCT IS MISTED, USE NIOSH APPROVED MASK FOR SPRAY MISTS. IN EMERGENCY SITUATIONS, THE FOLLOWING RESPIRATORS ARE RECOMMENDED: 500 PPM: CCROV/SA/SCBA 1000 PPM: CCROVF/GMOV/SAF/SCBAF ESCAPE: GMOV/SCBA

Glove Protection:

PVA, OR EQUIVALENT IF REPEATED OR PROLONGED SKIN CONTACT OCCURS.

Eye Protection:

CHEMICAL GOGGLES IF METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

Other Protection:

N/A

Section X - Storage and Handling Information

Storage Temperature

Max: 120 F. Min: 30 F.

Storage Conditions

Indoors Outdoors Heated Refrigerated

Precautions to be Taken in Handling and Storing:

FOLLOW LABEL DIRECTIONS.

Other Precautions:

KEEP AWAY FROM CHILDREN.

Section XI - Regulatory Information

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Upper % Limit</u>
1,1,1 TRICHLOROETHANE	71-55-6	40
ORGANIC BARIUM SALT	N/E	5

Those Ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 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. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES ACGIH 1991
2. OSHA PEL
3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES 1991.
4. THE PERCENTAGES OF THE HAZARDOUS INGREDIENTS ARE PROTECTED BY THE MASS. TRADE SECRET # TS-99-223-001

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