

MATERIAL SAFETY DATA SHEET: DYLEK NF AEROSOL

Section I - General Information

(000000-000000- - 5697)

Date of Issue:

8/21/2001 12:00:00 AM

Chemical Name & Synonyms:

N/A

Chemical Family:

CHLOROFLUOROCARBON

Manufacturer Name:

CERTIFIED LABS, DIV. OF NCH CORP.

Manufacturer Address:

BOX 152170
IRVING, TEXAS 75015

Prepared By:

K Dickinson/Chemist

Supercedes:

8/10/2001 12:00:00 AM

Trade Name & Synonyms:

DYLEK NF AEROSOL

Formula is a mixture: [v]

Product Code Number:

5697

Emergency Phone Number:

800-424-9300

Section II - Hazardous Ingredients

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)

DICHLOROFLUOROETHANE
CARBON DIOXIDE

Hazard

IRRITANT
ASPHYXIANT

TLV

NOT EST. 1
5000PPM 1

PEL

NOT EST. 2
5000PPM 2

STEL

NOT EST.
30000PPM 1

CAS

1717-00-6
124-38-9

Section III - Physical Data

Boiling Point (?F):90
Vapor Pressure (mm Hg):10
Vapor Density (Air=1):4
pH @ 100% :N/A
% Volatile by Volume:100
H₂O Solubility:NEGLIGIBLE

Specific Gravity (H₂O=1):1.24
Color:COLORLESS
Odor:CHLORINATED SOLVENT
Clarity:TRANSPARENT
Evaporation Rate (BuAc=1):1.2
Viscosity:NON-VISCOUS

Section IV - Fire and Explosion Hazard

Flash Point:NONFLAM

Flammable Limits: DICHLOROFLUOROETHANE

LEL: 7.6%

Method Used: SETAFLASH

UEL: 17.7%

Aerosol Level (NFPA 30B): 1

Extinguishing Media:

[v] Foam [v] Alcohol Foam [v] CO2
[v] Dry Chemical [v] Water Spray [] Other

NFPA 704 Hazard Rating:

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

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. SPRAY EXPOSED AEROSOL CONTAINERS WITH WATER TO PREVENT BURSTING.

Unusual Fire and Explosion Hazards:

HYDROFLUORIC AND HYDROCHLORIC ACIDS CAN FORM UNDER CONDITIONS OF INTENSE HEAT. PHOSGENE CAN BE FORMED AT TEMPERATURES ABOVE 1000°F. ADDITIONALLY, IF THE VAPORS ARE ALLOWED TO COLLECT AT THE CONCENTRATIONS LISTED ABOVE, & EXPOSED TO AN IGNITION SOURCE, AN EXPLOSION COULD POTENTIALLY RESULT.

Section V - Health and Hazard Data

Threshold Limit Value:

5000 PPM FOR CARBON DIOXIDE 1.

Effects of Overexposure:

Acute: (Short Term Exposure)

EYE CONTACT: CAUSES IRRITATION SEEN AS REDNESS, STINGING AND TEARING. MAY CAUSE CONJUNCTIVITIS AND FROSTBITE. SKIN CONTACT: CAUSES IRRITATION SEEN AS ITCHING, REDNESS AND DEPARTING OF THE SKIN. RAPID EVAPORATION OF LIQUID CAN CAUSE FROSTBITE WITH REDNESS, TINGLING AND PAIN OR NUMBNESS. INHALATION: AT LOW LEVELS OF CONCENTRATION, INITIAL SYMPTOMS MAY INCLUDE DIZZINESS AND LOSS OF CONCENTRATION. AT HIGH LEVELS OF CONCENTRATION, CENTRAL NERVOUS SYSTEM DEPRESSION (INTOXICATION) AND CARDIAC ARRHYTHMIA MAY OCCUR. PRODUCT VAPORS DISPLACE AIR AND CAN CAUSE ASPHYXIATION, ESPECIALLY IN CONFINED SPACES. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, WEAKNESS, STAGGERING GAIT, NAUSEA, BLURRED VISION, EXCITATION AND IN EXTREME CASES COMA OR DEATH.

Chronic: (Long Term Exposure)

CHRONIC EFFECTS: REPEATED OVEREXPOSURE CAN SENSITIZE THE HEART TO EPINEPHRINE WHICH MAY CAUSE CARDIAC ARRHYTHMIA (IRREGULAR HEARTBEAT). THIS DEGREE OF EXPOSURE IS UNLIKELY WITH AN AEROSOL UNLESS INTENTIONALLY AND REPEATEDLY INHALED. TARGET ORGANS: CENTRAL NERVOUS SYSTEM, HEART, AND LUNGS. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING HEART OR CARDIOVASCULAR DISORDERS AND RESPIRATORY CONDITIONS SUCH AS ASTHMA AND EMPHYSEMA.

Primary Routes of Entry

[v] Inhalation [] Ingestion [] Absorption

Emergency First Aid Procedures:

Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH TO MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

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 LARGE AMOUNTS OF SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

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:

BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM, CATECHOLAMINE DRUGS SUCH AS EPINEPHRINE, SHOULD BE USED WITH SPECIAL CAUTION ONLY IN SITUATIONS OF EMERGENCY LIFE SUPPORT. TREATMENT OF OVEREXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITIONS.

Section VI - Toxicity Information

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

☐ IARC ☐ NTP ☐ OSHA ☐ ACGIH ☐ Other

DICHLOROFLUOROETHANE
ORL: NON-TOXIC, > 5 GM/KG BODYWEIGHT 3.
IHL-RAT LC50: 62,000 PPM/4HR 3.
SKN-RBT LD50: >2 GM/KG 4.
CARDIAC SENSITIZATION THRESHOLD: 10,000 PPM 3.
AMES ASSAY - NOT ACTIVE 3.
MALE RATS EXPOSED BY INHALATION TO 5,000 PPM OR GREATER (6 HOURS/DAY,
5 DAYS/WEEK FOR 2 YEARS) WERE FOUND TO HAVE A SMALL BUT STATISTICALLY
SIGNIFICANT NUMBER OF LATE DEVELOPING BENIGN TESTICULAR TUMORS. 3.

CARBON DIOXIDE
IHL-RAT TCLO: 10000 PPM/24(S)-30 DAY(S) CONTINUOUS 3.
IHL-HMN LCLO: 9PPM/5M 3.

Section VII - Reactivity Data**Stability**☒ Stable ☐ Unstable**Conditions to Avoid:**

AVOID CONTINUOUS EXPOSURE TO REACTIVE METALS AND WATER OR ALCOHOL BLENDS.

Hazardous Polymerization☒ Will not occur ☐ May occur**Conditions to Avoid:**

N/A

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE. REDUCING AGENTS SUCH AS SODIUM THIOSULFATE, ACIDS AND BASES. ALKALIES AND METALS SUCH AS ALUMINUM, METAL SALTS, METAL CARBIDE AND DESSICANTS.

Hazardous Decomposition Products:

HYDROCHLORIC AND HYDROFLUORIC ACIDS, AND CARBONYL HALIDES SUCH AS PHOSGENE. OXIDES OF CARBON.

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.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. TYPICAL DISPOSAL IS TO WRAP THE EMPTY AEROSOL CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN THE TRASH. AEROSOL RECYCLING PROGRAMS ARE AVAILABLE IN MANY AREAS. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.

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:

A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE.

Section X - Storage and Handling Information**Storage Temperature**

Max: 120 F. Min: 35 F

Storage Conditions☒ Indoors ☐ Outdoors ☐ Heated ☐ Refrigerated**Precautions to be Taken in Handling and Storing:**

USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY AND OPEN FLAME.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT.

Section XI - Regulatory Information**Chemical Name**

DICHLOROFLUOROETHANE

CAS Number

1717-00-6

Upper % Limit

95

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. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2001. 2. OSHA PEL. 3. VENDOR'S MSDS. 4. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2001. 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, PMCC: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:MTAGENIC, ASPHYX:ASPHYXIANT, PNOS: PARTICULATES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST, ORL: ORAL, HMN: HUMAN, IHL:INHALATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING

MATERIAL SAFETY DATA SHEET: DYLEK NF AEROSOL

THE ACCURACY OF THE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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.

©2008 [NCH Corporation](#) All rights reserved.