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DATE OF ISSUE
3/15/2004SUPERSEDES
9/16/1999

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms
N/ATrade Name & Synonyms
LUBREASE CLEAR AEROSOLChemical Family:
AEROSOL PETROLEUM MIXTURE

Formula Mixture --> X

Manufacturer's Name:
CHEMSEARCH DIV. OF NCH CORP.Address:
BOX 152170
IRVING, TX 75015Prepared By:
M McDowell/ChemistProduct Code Number
5363Emergency 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 HEAVY NAPHTHENIC PETROLEUM DISTILLATES | IRRITANT | 5MG/M3 \$1 | 5MG/M3 \$2 | 10 MG/M3\$1 | 64742-52-5 |
| OIL SOLUBLE CALCIUM SULFONATE | IRRITANT | 5MG/M3 \$1 | 5MG/M3 \$2 | 10 MG/M3\$1 | 61789-86-4 |
| 1,2,4-TRIMETHYLBENZENE | IRRITANT | 25 PPM 1 | N/E 2 | N/E | 95-63-6 |
| PROPANE | FLAM/ASPHX | 2500PPM 1 | 1000PPM 2 | N/E | 74-98-6 |
| N-BUTANE | FLAM/ASPHX | 800 PPM 1 | N/E 2 | N/E | 106-97-8 |
| ALIPHATIC HYDROCARBON | COMB/IRR | 100 PPM\$S1 | 500 PPM\$S2 | N/E | 64742-47-8 |
| SOLVENT NAPHTHA (PETROLEUM) MEDIUM ALIPHATIC | COMB/IRR | 100 PPM\$S1 | 500 PPM\$S2 | N/E | 64742-38-7 |
| 1,3,5-TRIMETHYLBENZENE | IRRITANT | 25 PPM 1 | N/E 2 | N/E | 108-67-8 |
| CUMENE | IRR/COMB | 50 PPM 1 | 50 PPM 2 | N/E | 98-82-8 |
| \$ OIL MIST VALUE | | | | | |
| \$\$ STODDARD SOLVENT VALUE | | | | | |

SECTION III - PHYSICAL DATA

| | | | |
|---------------------------|------------|------------------------------|---------------|
| Boiling Point (F): | 345°F | Specific Gravity (H2O=1): | 0.89 |
| Vapor Pressure (MM HG): | 2059 | Color: | LIGHT AMBER |
| Relative Density (Air=1): | 1.7 | Odor: | PETROLEUM |
| PH @ 100% : | N/A | Clarity: | SLIGHTLY HAZY |
| % Volatile by Volume: | 60 | Evaporation Rate (BU A/C=1): | 29.5 |
| H2O Solubility: | NEGLIGIBLE | Viscosity: | NON-VISCOUS |

SECTION IV - FIRE AND EXPLOSION HAZARD

| | | | |
|--|-------------------------------------|--------------|-------------|
| Flash Point 119°F / T.C.C. | Flammable Limits PRODUCT MIXTURE | LEL 0.01% | UEL 9.5% |
| Extinguishing Media X <--Foam <--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. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING. | | | |
| Unusual Fire and Explosion Hazards: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK. FLAME EXTENSION IS >18 INCHES, BURNBACK IS 0 INCHES. PRODUCT MAY PRODUCE A FLOATING FIRE HAZARD AS LIQUID FLOATS ON WATER. | | | |
| Aerosol Level (NFPA 30B): 3 | | | |
| NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme) 1 <--Health 3 <--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)

EYE CONTACT: CAUSES IRRITATION SEEN AS STINGING, SWELLING, TEARING, REDNESS, BLURRED VISION, AND A BURNING SENSATION.

SKIN CONTACT: CAUSES IRRITATION SEEN AS ITCHING, REDNESS, SWELLING, BLISTERS, AND A BURNING SENSATION. PRODUCT MAY BE ABSORBED THROUGH THE SKIN IN LARGE AMOUNTS. PROLONGED OR REPEATED CONTACT AS FROM CLOTHING WET WITH MATERIAL MAY CAUSE DRYING, DEFATTING, AND CRACKING OF THE SKIN.

INHALATION: CAUSES RESPIRATORY IRRITATION SEEN AS COUGHING, SNEEZING, DIFFICULTY BREATHING, AND A TEMPORARY BURNING SENSATION OF THE NOSE AND THROAT. AT LOW VAPOR CONCENTRATIONS, NO HARMFUL EFFECTS ARE EXPECTED. AT HIGH VAPOR CONCENTRATIONS, INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, DROWSINESS, WEAKNESS, UNCONSCIOUSNESS, POSSIBLE ANESTHETIC EFFECTS FROM CENTRAL NERVOUS SYSTEM DEPRESSION, AND MAY BE FATAL.

INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING, AND DIARRHEA. 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.

SECTION V - HEALTH HAZARD DATA (Continued)

-Chronic (Long Term Exposure)

ON RARE OCCASIONS, PROLONGED AND REPEATED EXPOSURE TO HYDROCARBON MIST POSES A RISK OF CHRONIC LUNG INFLAMMATION. THIS CONDITION IS USUALLY ASYMPTOMATIC AS A RESULT OF REPEATED SMALL ASPIRATIONS. SHORTNESS OF BREATH AND COUGHING ARE THE MOST COMMON SYMPTOMS. ASPIRATION MAY LEAD TO PULMONARY EDEMA AND HEMORRHAGE AND MAY BE FATAL. SIGNS OF LUNG INVOLVEMENT INCLUDE INCREASED RESPIRATION AND HEART RATES AS WELL AS A BLuish DISCOLORATION OF THE SKIN. PROLONGED OR REPEATED EXPOSURES TO HIGH CONCENTRATIONS HAVE RESULTED IN HEARING LOSS, IRREGULAR HEART RHYTHMS, AND CARDIAC ARREST. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS. TARGET ORGANS: CENTRAL NERVOUS SYSTEM AND CARDIOVASCULAR SYSTEM. THE PRIMARY ROUTES OF EXPOSURE ARE SKIN AND EYE CONTACT.

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

Emergency and 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. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

-Notes to Physician:

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. 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 CUFFED ENDOTRACHEAL TUBE WILL PREVENT ASPIRATION.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC--> No NTP--> No OSHA--> No ACGIH--> No OTHER--> No

VOC CONTENT: 53.0% BY WEIGHT, 60% BY VOLUME, 472 G/L.

HYDROTREATED HEAVY NAPHTHENIC PETROLEUM DISTILLATES

ORL-RAT LD50: >5 G/KG 3.
SKN-RBT LD50: >2 G/KG 3.
SKN-RBT SDT: 500 MG SEVERE 4.

MINERAL OIL MISTS DERIVED FROM HIGHLY REFINED OILS ARE REPORTED TO HAVE LOW ACUTE AND SUB-ACUTE TOXICITIES IN ANIMALS. EFFECTS FROM SINGLE SHORT-TERM REPEATED EXPOSURES TO HIGH CONCENTRATIONS OF MINERAL OIL MISTS WELL ABOVE APPLICABLE WORKPLACE EXPOSURE LEVELS INCLUDE LUNG INFLAMMATORY REACTION, LIPOID GRANULOMA FORMATION, AND LIPOID PNEUMONIA. IN ACUTE AND SUB-ACUTE STUDIES INVOLVING EXPOSURES TO LOWER CONCENTRATIONS OF MINERAL OIL MISTS AT OR NEAR CURRENT WORK PLACE EXPOSURE LEVELS PRODUCED NO SIGNIFICANT TOXICOLOGICAL EFFECTS. IN LONG TERM STUDIES (UP TO TWO YEARS) NO CARCINOGENIC EFFECTS HAVE BEEN REPORTED IN ANY ANIMAL SPECIES TESTED. THIS PRODUCT IS FORMULATED WITH MINERAL OILS WHICH ARE CONSIDERED TO BE SEVERELY REFINED AND NOT CONSIDERED TO BE CARCINOGENIC UNDER IARC. 3.

OIL SOLUBLE CALCIUM SULFONATE (DATA FOR SIMILAR COMPOUNDS)

ORL-RAT LD50: >20 G/KG 3.

1,2,4-TRIMETHYLBENZENE

ORL-RAT LD50: 5 G/KG 4.
IHL-RAT LC50: 18 G/M3/4H 4.

PROPANE

NO TOXICOLOGICAL DATA ARE AVAILABLE

N-BUTANE

IHL-RAT LC50: 658 G/M3/4H 4.
IHL-MUS LC50: 680 G/M3/4H 4.

HUMAN VOLUNTEERS EXPOSED REPEATEDLY TO GASES OF SIMILAR HYDROCARBON MIXTURES RANGING FROM 250 TO 1000 PPM EXHIBITED NO CARDIAC OR PULMONARY FUNCTION ABNORMALITIES. 3.

ALIPHATIC HYDROCARBON / SOLVENT NAPHTHA PRODUCT MIXTURE

ORL-RAT LD50: >25 ML/KG 3.
IHL-RAT LC50: >710 PPM/4HR 3.
SKN-RBT LD50: 5 ML/KG 3.
SKN-RBT: MODERATE IRRITATION 3.
EYE-RBT: NEGLIGIBLE IRRITATION 3.

ANIMAL DATA SUGGEST THAT SLIGHT ANEMIA, ADAPTIVE LIVER CHANGES, AND KIDNEY TOXICITY MAY BE CAUSED BY REPEATED OVEREXPOSURE TO SOME SIMILAR SOLVENTS. THE SIGNIFICANCE OF THIS TO HUMANS IS UNKNOWN. 3.

1,3,5-TRIMETHYLBENZENE

ORL-RAT TDLo: 2100 MG/KG/14D-C 4.
IHL-HMN TCLo: 10 PPM 4.
SKN-RBT SDT: 20 MG/24H MODERATE 4.
EYE-RBT SDT: 500 MG/24H MILD 4.

LONG-TERM INHALATION EXPOSURE TO TRIMETHYLBENZENE CAUSES BLOOD EFFECTS IN LABORATORY ANIMALS. 3.

CUMENE

IHL-HMN TCLo: 200 PPM 4.
ORL-RAT LD50: 1400 MG/KG 4.
SKN-RBT LD50: 12300 UL/KG 4.
SKN-RBT SDT: 100 MG/24H MODERATE 4.
EYE-RBT SDT: 500 MG/24H MILD 4.

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable
Conditions to Avoid:

SECTION VII - REACTIVITY DATA (Continued)

AVOID HEAT, HOT SURFACES, SPARKS, AND OPEN FLAMES.

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE.

Hazardous Decomposition Products:

OXIDES OF CARBON, SULFUR, AND CALCIUM.

Hazardous Polymerization:

<--May Occur

X <--Will Not Occur

Conditions to Avoid:

N/A

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, WEAR APPROPRIATE PROTECTIVE CLOTHING, ELIMINATE ALL SOURCES OF IGNITION. VENTILATE THE AREA, ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. USE CARE AS SPILLS MAY BE SLIPPERY.

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:

N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF MISTS OR VAPORS. LOCAL VENTILATION IS PREFERRED, BECAUSE IT PREVENTS DISPERSION INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE.

Respiratory Protection:

RESPIRATORS SHOULD BE SELECTED BY AND USED UNDER THE DIRECTION OF A TRAINED HEALTH AND SAFETY PROFESSIONAL FOLLOWING REQUIREMENTS FOUND IN OSHA'S RESPIRATOR STANDARD (29 CFR 1910.134) AND ANSI'S STANDARD FOR RESPIRATORY PROTECTION (Z88.2-1992). FOR CONCENTRATIONS ABOVE THE TLV AND/OR PEL BUT LESS THAN 10 TIMES THESE LIMITS, A NIOSH APPROVED HALF-FACEPIECE RESPIRATOR EQUIPPED WITH APPROPRIATE CHEMICAL CARTRIDGES MAY BE USED. FOR CONCENTRATIONS GREATER THAN 10 TIMES THE TLV AND/OR PEL, CONSULT THE NIOSH RESPIRATOR DECISION LOGIC FOUND IN PUBLICATION NO. 87-116 OR ANSI Z88.2-1992.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR HAND PROTECTION, 29 CFR 1910.138.

Eye Protection:

SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF APPLICATION PRESENTS THE LIKELIHOOD OF EYE CONTACT. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR EYE AND FACE PROTECTION, 29 CFR 1910.133.

Foot Protection:

WEAR GENERAL DUTY WORK CLOTHING AND SHOES. A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X

Outdoors--> X

Heated-->

Refrigerated-->

Minimum Temperature: 60°F Maximum Temperature: 120°F

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. FOLLOW THE LABEL DIRECTIONS.

SECTION XI - REGULATORY INFORMATION

Chemical Name

CUMENE

1,2,4-TRIMETHYLBENZENE

CAS Number

98-82-8

95-63-6

Upper % Limit

5

10

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, 2003.

2. OSHA PEL.

3. VENDOR'S MSDS.

4. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFOWeb, 2003.

ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING.

IRRITANT, FLAM/FLAMM:FLAMMABLE, COMB:COMBUSTIBLE, CORR:CORROSIVE, CARC:CARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED, CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN CLOSED CUP, TCC:TAGLIAPIRELLI 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, FPOS:PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SOT:STANDARD DRIZZLE TEST, ORL:ORAL, IHL:INHALATION, HMN:HUMAN

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

SECTION XII - REFERENCES (Continued)

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

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