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DATE OF ISSUE 10/09/2001

SUPERSEDES 9/16/1999

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SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms

Trade Name & Synonyms CHAIN PRO AFROSOL

hemical Family:

AFROSOL PETROLEUM MIXTURE

Formula Mixture --> X

Manufacturer's Name: -----

CHEMSEARCH DIV. OF NCH CORP.

BOX 152170 IRVING,

TX 75015

C Williamson/Chemist

Product Code Number

5581

Emergency Phone Number 800-424-9300

SECTION II - HAZARDOUS INGREDIENTS THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name PETROLEUM DISTULIATES, HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC CHLORINATED PARAFFIN PROPANE

N-BUTANE \$ DIL MIST VALUES

Hazard	TLV	PEL	STEL	CAS #
OIL MIST	5 MG/M3 \$1	5 MG/M3 \$3	1.0MG/M3 \$1	64742-54-7
OIL MIST	5 MG/M3 \$1	5 MG/M3/\$2	10MG/M3 \$1	64742-65-6
IRRITANT	5 MG/M3 \$1	5 MG/M3 \$2	10MG/M3 \$1	61788-76-9
FLAM/ASPHY	2500PPM 1	1000PPM 2	N/E	74 - 98 - 6
FLAM/ASPHY	800 PPM 1	N/E 2	N/E	106-97-6

SECTION III - PHYSICAL DATA

		100 100 100 100 100 100 100 100 100 100		
Boiling Point (F):	610°	Specific Gravity (H20=1):	0.879	
Vapor Pressure (MM HG):	40-65ps1	Color:	PALE AMBER	
Vapor Density (Air=1):	>5	Odor:	PETROLEUM	
,H § 190# ;	N/A	Clarity:	SL. HAXY	
. Vocatile by Volume:	50	Evaporation Rate (BU A/C=1):	<0.01	
H20 Solubility:	NEGLIGIBLE	Viscosity:	SPMI-VISCOUS	

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point 410°F 10°F / T.C.C.

Flammable Limits PETROLEUM DISTILLATES

0.98 *

UE1. 78

Extinguishing Media

· · · Foam

S-Alcohol Foam

3

<--C02

N '-- Dry Chemical

X <--Water Spray

<--Other

Special Fire Fighting Procedures:

STREEFIGHTERS SHOULD WEAR A SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CHAR.

Unusual Fire and Explosion Hazards:

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND PLASHBACK. USE WATER SPRAY TO COOL FIRE EXPOSES CONTAINERS TO PREVENT BURSTING, FLAME EXTENSION IS ⇒12 INCHES, BURNBACK IS 0 INCHES, ALTHOUGH THERE ARE NO FLAMMASIE LIMITS FOR THIS PRODUCT AT AMBIENT TEMPERATURE AND PRESSURE, MATERIAL MAY FORM A FLAMMABLE MIXTURE AT EXTREMELY HIGH TEMPERATURES OR WHEN PERFORMING HOT WORK SUCH AS WELDING.

Aerosol Level (NFPA 30B):

(0%lnsignificant 1%Slight 2@Moderato 3%High 4%Extreme) :--Special

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:

NOT ESTABLISHED FOR MIXTURE. SEE SECTION 11.

Effects of Overexposure:

-Acute (Short Term Exposure)

-ACULE (SHOUL FEED EXPOSULE)
EYE CONTACT: MAY CAUSE IRRITATION SEEN AS TEARING AND REDNESS. SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS AND MAY RESULT IN
DEPMATITIS AND DIL ACNE. INHALATION: MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING OR CENTRAL NERVOUS SYSTEM EFFECTS SEEN AS
HEADACHE, DISZINESS OR ANESTHESIA. INGESTION: INGESTION OF LARGE AMOUNTS MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRISEA.

-Chronic (Long Term Exposure)

N. RARE OCCASIONS, PROLONGED AND REPEATED EXACSURE TO DIL MIST FOSES A RISK OF CHRONIC LUNG INFLAMMATION. THIS CONDITION IS USUALLY ASYMPTOMATIC AS A SUBJECT OF REFEATED SMALL ASPIRATIONS. SHORTNESS OF BREATH AND COUGHING ARE THE MOST COMMON SYMPTOMS. ASPIRATION MAY LEAD TO EULMORARY EDIDMA AND GEMORPHAGE AND MAY BE FATAL. SIGNS OF LUNG INVOLVMENT INCLUDE INCREASED RESPIRATION AND HEART RATES AS WELL AS A BLUISH DISCOLORATION OF THE SKIN. IN RARE CASES, AN INCREASED SENSITIVITY TO SUBLIGHT (PHOTOSENSITIVITY) MAY OCCUR, MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA. FMEHYSEMA AND DEPMATITIS. TARGET ORGANS: CENTRAL NERVOUS SYSTEM.

Frimary Routes of Entry:

X <--Inhalation

<--Ingestion

<--Absorption

Emergency and First Aid Procedures:

SAFETY DATA SHEET: CHAIN PRO AEROSOL Page: 2

SECTION V - HEALTH HAZARD DATA (Continued)
-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. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.
GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDIVE VOMITING OF HOLDING OF THE STATE OF
-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
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC ORL-RAT LD50: >15 GM/KG 3. SKN-RET LD50: >5 GM/KG 3. SKN-RET LD50: >5 GM/KG 3. SKN-RET LD50: >5 GM/KG 3. ORL-RAT LD50: >5 GM/KG 3. SKN-RET LD50: >5 GM/KG 3.
HAZARD COMMUNICATION STANDARD CRITERIA. 4.
CHLORINATED PARAFFIN ORL-RAT LD50: >21500 UL/Kg 3. SRN-RRT LD50: >10 ML/Kg 3. SRN-RRT SDT: 100 MG/24H MILD 3. EYE-RBT SDT: 100 MG MILD 3.
CHLORINATED PARAFFINS ARE A CLASS OF COMPOUNDS THAT ARE SIMILARLY MANUFACTURED BUT VARY IN MOLECULAR STRUCTURE BY CARBON CHAIN LENGTH AND DEGREE OF CHLORINATION. THIS PRODUCT HAS NOT BEEN SHOWN TO HAVE SIGNIFICANT ADVERSE HEALTH EFFECTS. 4.
LARC HAS DETERMINED THAT CHLORINATED PARAFFINS OF AVERAGE CARBON-CHAIN LENGTH C12 AND AVERAGE DECREE OF CHLORINATION APPROXIMATELY 60% ARE POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B). 5.
PROPANE NO TOXICOLOGICAL DATA AVAILABLE
N-BUTANE IRL-RAT LCS0: 658 G/M3/4H
HUMAN VOLUNTEERS EXPOSED REPEATEDLY TO GASES OF SIMILAR HYDROCARON MIXTURES RANGING FROM 250 TO 1000 PPM EXHIBITED NO CARDIAC OR PULMONARY FUNCTION 4.
SECTION VII - REACTIVITY DATA
Stability: X <stable <unstable<="" th=""></stable>
Conditions to Avoid: AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.
Incompatibility (Materials to Avoid): STRONG OXIDIZING AGENTS SUCH AS CHEGRINE BLEACH, CONCENTRATED HYDROGEN PEROXIDE AND CALCIUM HYPOCHEGRITE: REDUCING AGENTS SUCH AS SOCIUM THIOSULFATE; ACIDS AND BASES.
Hazardous Decomposition Products: OXIDES OF CARBON, NITROGEN, SULFUR, CALCIUM, SINC AND PHOSPHORUS: MOLYEDENUM FUMES: HYDROGEN FLUGRIDE, PERFLUGUROHYDROGARBONS, HYDROGEN SULFIDE, ALKYLMERCAPTANS, SULFIDES, HYDROGEN CHLORIDE GAS, ALDEHYDES AND SMOKE.
Hazardous Polymerization: <may <will="" a<="" n="" not="" occur="" td="" x=""></may>
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, VENTILATE THE AREA. USE CARE AS SPILLS MAY BE SLIPPERY. ABSORD 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 EMTERING SEMAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER.
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 MISTS OR VAPORS.

Respiratory Protection:

MATERIAL SAFETY DATA SHEET: CHAIN PRO AEROSOL

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SECTION IX - SPECIAL PROTECTION INFORMATION (Continued)

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

NEOPREME OR NITRILE RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY.

FETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

WEAR GENERAL DUTY WORK CLOTHING AND SHOES.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Minimum Temperature: 10°F

Indoors --> X

Outdoors--> X Maximum Temperature: 120°F

Heat.ed-->

Refrigerated -->

Precautions to be Taken in Handling and Storing:

DO NOT USE OR STORE AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY AND OPEN FLAME.

KEEP DUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

SECTION XI - REGULATORY INFORMATION

Chemical Name

CAS Number

Upper & Limit

Those ingredients listed above are subject to the reporting requirements of 313 of Title FII 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.

OSHA PEL.

REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFOLISC, 2001.

VENDOR'S MSDS.

5. IARC.

DRECORROSIVE CARCICARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED, COC:CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN CLOSED CUP, IC:TAGLIABUE CLOSED CUP, LEL:LOWER EXPLOSION LIMIT URL-UPPER EXPLOSION LIMIT NPPA-NATIONAL FIDE BEOFFECTOR ASSOCIATION, LARCINTERNATIONAL TOXICOLOGY PROGRAM, OSHA:OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, AGSH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, ILV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE LIMIT, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MCD:MODEMATE, SEV:SEVERE, MUT:MUTAGENIC, ASPHYX:ASPHYXIANT, PNOS: PARTICULATES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAISE TEST, ORL: CRAL, HMN: HUMAN, IHL:INHALATION ----- IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, COMB: COMBUST:BLE,

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

CHEMSEARCH 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

MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA'S COMMUNICATION STANDARD (29CFR 1910.1200)

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Knuckle Favor PRODUCT NUMBER: ET 105 PRODUCT TYPE: AEROSOL

SUPPLIER'S NAME: Enviro Technologies

SUPPLIER'S ADDRESS: 35790Plum Creek Rd. Osawatomie, KS 66064

D.O.T.HAZARD CLASS: ORM-D

Chemical Family: N/A Formula: Proprietary Date Prepared: 7/20/01 Emergency Phone: (800)254-3924

Information Phone: (800)899-2817

HMIS RATING: (Based on Aerosol Concentrate): 0-Minimal; 1-Slight; 2-Moderate; 3-Serious; 4-Extreme HEALTH .. FLAMABILITY 2 REACTIVITY 0 PERSONAL PROTECTION: -

SECTION II -	INGREDIENTS/IDENTITY INFOR	MATION

CHEMICAL NAME	CAS NO.	OSHA PEL	ACGIH TLV	% WT
Methylene Chloride Ethylene Glycol Monobutył Ether Carbon Dioxide	75-09-2 111-76-2 124-38-9	25 ppm 50 ppm N/A	25 ppm 25 ppm	
Carbon Dioxide	124-38-9	N/A	5000 ppm	

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Vapor Density (Air=1); >1 Solubility in Water: Insoluble Spacific gravity (water = 1): 1.25 Boiling Point: Not Established Vapor Pressure (psig): 80 psig

Vapor Density: >1

Evaporation Rate(Butyl Acetate=1): >1 Appearance/Odor; Yellow Mist, Sweet Odor

PH (@25°C): Not Applicable

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point(Method Used): N/E

Flammable Limits: LEL:N/E

UEL: N/E

Extinguishing Media: Foam, CO2, Dry media.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective

clothing. Cool fire exposed containers to prevent rupturing

Unusual Fire and Explosion Hazards: Exposure to temperatures above 120 F may cause bursting.

SECTION V - REACTIVITY DATA

Hazardous Polymerization: Will not occur.

Incompatibility: Strong oxidizers.

Hazardous Decomposition products: Carbon Dioxide, Carbon Monoxide Conditions to avoid: Temperatures above 120 F may cause bursting

SECTION VI - STORAGE AND HANDLING

KEEP OUT OF THE REACH OF CHILDREN For industrial use only.

Store in a cool, dry area away from heat or open flame

Do not store at temperatures above 120 F NFPA Code 30B Rating: Level 2 Aerosol.

SECTION VII - HEALTH HAZARD DATA

PRIMARY ROUTS OF ENTRY & EFFECTS OF OVER EXPOSURE

EYES: May cause slight irritation but does not injure eye tissue.

SKIN: Frequent or prolonged contact may cause irritation.

INHALATION: Inhalation of mist can cause irritation of nasal and respiratory passages. Abusive or excessive inhalation may cause irritation to the upper respiratory tract, dizziness, nausea, and other central nervous system effects.

INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis.

FIRST AID PROCEDURES

EYES: Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately

SKIN: Wash with soap and water. If irritation persists seek medical attention,

INHALATION: Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.

INGESTION: Do not induce vomiting. Seek medical attention immediately.

SECTION VIII - CONTROLL MEASURES

RESPIRATORY PROTECTION: None needed for proper use in accordance label directions.

VENTILATION: Provide local exhaust to keep TLV of Section II ingredients below acceptable limits.

PROTECTIVE GLOVES: None needed for proper use in accordance with label directions. Use chemical resistant gloves if hand contact will be made.

EYE PROTECTION: None needed unless it is anticipated that a splash or sprayback will occur, then wear safety glasses.

SECTION IX - SPILL OR LEAK PRECAUTIONS

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

Allow propellant to evaporate.

Maintain local exhaust and adequate ventilation.

No smoking. Keep Sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with federal. State and local laws.

WASTE DISPOSAL METHOD:

Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State and local authorities for approved procedures.

N/A=NOT APPLICABLE N/E=NOT ESTABLISHED N/D=NOT DETERMINED <=LESS THAN >=MORE THAN

NOTICE: The information contained on this material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product