

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms

Trade Name & Synonyms

N/A
Chemical Family:
AEROSOL PETROLEUM MIXTURE

CHAIN PRO AEROSOL
Formula Mixture --> X

Manufacturer's Name:
CHEMSEARCH DIV. OF NCH CORP.

Address:
BOX 152170
IRVING, TX 75015

Prepared By:
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 (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC	OIL MIST	5 MG/M3 \$1	5 MG/M3 \$2	10MG/M3 \$1	64742-54-7
PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC	OIL MIST	5 MG/M3 \$1	5 MG/M3 \$2	10MG/M3 \$1	64742-65-0
CHLORINATED PARAFFIN	IRRITANT	5 MG/M3 \$1	5 MG/M3 \$2	10MG/M3 \$1	61788-76-9
PROPANE	FLAM/ASPHY	2500PPM 1	1000PPM 2	N/E	74-98-6
N-BUTANE	FLAM/ASPHY	800 PPM 1	N/E 2	N/E	106-97-6

\$ OIL MIST VALUES

SECTION III - PHYSICAL DATA

Boiling Point (F):	610°	Specific Gravity (H20=1):	0.879
Vapor Pressure (MM HG):	40-65psi	Color:	PALE AMBER
Vapor Density (Air=1):	>5	Odor:	PETROLEUM
Evaporates at 100% :	N/A	Clarity:	SL. HAZY
Volatile by Volume:	50	Evaporation Rate (BU A/C=1):	<0.01
H2O Solubility:	NEGLIGIBLE	Viscosity:	SEMI-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point 110°F / T.C.C.	Flammable Limits PETROLEUM DISTILLATES	LEL 0.9% *	UEL 7% *
Extinguishing Media --Foam --Alcohol Foam --CO2 X --Dry Chemical X --Water Spray --Other			

Special Fire Fighting Procedures:
FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR.

Unusual Fire and Explosion Hazards:
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO PREVENT BURSTING. FLAME EXTENSION IS >18 INCHES, BURNBACK IS 0 INCHES. ALTHOUGH THERE ARE NO FLAMMABLE 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): 3

NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)
2 --Health 4 --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: MAY CAUSE IRRITATION SEEN AS TEARING AND REDNESS. SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS AND MAY RESULT IN DERMATITIS AND OIL ACNE. INHALATION: MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING OR CENTRAL NERVOUS SYSTEM EFFECTS SEEN AS HEADACHE, DIZZINESS OR ANESTHESIA. INGESTION: INGESTION OF LARGE AMOUNTS MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA.

-Chronic (Long Term Exposure)

ON OCCASIONS, PROLONGED AND REPEATED EXPOSURE TO OIL 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. IN RARE CASES, AN INCREASED SENSITIVITY TO SUNLIGHT (PHOTOSENSITIVITY) MAY OCCUR. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA AND DERMATITIS. TARGET ORGANS: CENTRAL NERVOUS SYSTEM.

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

Emergency and First Aid Procedures:

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.

-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

PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC

ORL-RAT LD50: >15 GM/KG 3.
SKN-RBT LD50: >5 GM/KG 3.

PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC

ORL-RAT LD50: >5 GM/KG 3.
SKN-RBT LD50: >5 GM/KG 3.

THESE PETROLEUM DISTILLATES ARE SEVERELY HYDROTREATED, SEVERELY SOLVENT EXTRACTED AND/OR PROCESSED BY MILD HYDROTREATMENT AND EXTRACTION. FOR THIS REASON, IT DOES NOT REQUIRE A CANCER HAZARD WARNING ACCORDING TO OSHA HAZARD COMMUNICATION STANDARD CRITERIA. 4.

CHLORINATED PARAFFIN

ORL-RAT LD50: >21500 UL/KG 3.
SKN-RBT LD50: >10 ML/KG 3.
SKN-RAT 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.

IARC HAS DETERMINED THAT CHLORINATED PARAFFINS OF AVERAGE CARBON-CHAIN LENGTH C12 AND AVERAGE DEGREE OF CHLORINATION APPROXIMATELY 60% ARE POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B). 5.

PROPANE
NO TOXICOLOGICAL DATA AVAILABLE

N-BUTANE

IHL-RAT LC50: 658 G/M3/4H 3.
IHL-MUS LC50: 680 G/M3/4H 3.

HUMAN VOLUNTEERS EXPOSED REPEATEDLY TO GASES OF SIMILAR HYDROCARBON MIXTURES RANGING FROM 250 TO 1000 PPM EXHIBITED NO CARDIAC OR PULMONARY FUNCTION ABNORMALITIES. 4.

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable
Conditions to Avoid:
AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH, CONCENTRATED HYDROGEN PEROXIDE AND CALCIUM HYPOCHLORITE; REDUCING AGENTS SUCH AS SODIUM THIOSULFATE; ACIDS AND BASES.

Hazardous Decomposition Products:

OXIDES OF CARBON, NITROGEN, SULFUR, CALCIUM, ZINC AND PHOSPHORUS; MOLYBDENUM FUMES; HYDROGEN FLUORIDE, PERFLUOROHYDROCARBONS, HYDROGEN SULFIDE, ALKYL MERCAPTANS, SULFIDES, HYDROGEN CHLORIDE GAS, ALDEHYDES AND SMOKE.

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, VENTILATE THE AREA. USE CARE AS SPILLS MAY BE SLIPPERY. 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. 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:

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.

Glove Protection:

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

Eye Protection:

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

Other Protection:

WEAR GENERAL DUTY WORK CLOTHING AND SHOES.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X Outdoors--> X Heated--> Refrigerated-->
Minimum Temperature: 10°F Maximum Temperature: 120°F

Precautions to be Taken in Handling and Storing:

DO NOT USE OR STORE 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

None

CAS Number

Upper & Limit

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. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2001.
4. VENDOR'S MSDS.
5. IARC.

IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, COMB: COMBUSTIBLE,
CORROSIVE, CARC: CARCINOGENIC, TOX: TOXIC, N/A: NOT APPLICABLE, N/E: NOT ESTABLISHED, COC: CLEVELAND OPEN CUP, PMCC: PENSKEY-MARTIN CLOSED CUP,
MELABUE 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: ASPHYXIANT, PNO: PARTICULATES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT: STANDARD DRAIZE TEST, ORL:
ORAL, HMN: HUMAN, IHL: INHALATION

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