

**MATERIAL SAFETY DATA SHEET:MISTOIL AEROSOL, M/M**

DATE OF ISSUE: 01/18/2006

SUPERCEDES: 12/30/2004

**SECTION I - GENERAL INFORMATION****Chemical Name & Synonyms:**

N/A

**Trade Name & Synonyms:**

MISTOIL AEROSOL, M/M

**Chemical Family:**

PETROLEUM DISTILLATE BLEND

Formula Mixture: X

**Manufacturer's Name:**

CERTIFIED LABS, DIV. OF NCH CORP.

**Address:**

BOX 152170

IRVING, TEXAS 75015

**Prepared By:**

M McDowell/Chemist

**Product Code Number**

5228

**Emergency Phone Number**

800-424-9300

**SECTION II - HAZARDOUS INGREDIENTS**

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

<b>Chemical Name (Ingredients)</b>	<b>Hazard</b>	<b>TLV</b>	<b>PEL</b>	<b>STEL</b>	<b>CAS #</b>
SYNTHETIC ISOPARAFFINIC HYDROCARBON	IRRITANT	5 MG/M3 \$1	5 MG/M3 \$2	10 MG/M3 \$1	64742-47-8
LIGHT ALKYLATE PETROLEUM NAPHTHA	IRR/FLAM	100 PPM #1	500 PPM #2	N/E	64741-66-8
MEDIUM ALIPHATIC SOLVENT NAPHTHA	IRR/COMB	100 PPM #1	500 PPM #2	N/E	64742-88-7
SEVERELY HYDROTREATED HEAVY NAPHTHENIC PETROLEUM DISTILLATE	IRRITANT	5 MG/M3 \$1	5 MG/M3 \$2	10 MG/M3 \$1	64742-57-5
LARD OIL	IRRITANT	5 MG/M3 \$1	5 MG/M3 \$2	10 MG/M3 \$1	8016-28-2
PROPANE	FLAM/ASPHY	1000 PPM*1	1000 PPM 2	N/E	74-98-6
N-BUTANE	FLAM/ASPHY	1000 PPM*1	N/E 2	N/E	106-97-8

\$ OIL MIST VALUES

# STODDARD SOLVENT VALUES

\* ALIPHATIC HYDROCARBON GASES

**SECTION III - PHYSICAL DATA**

<b>Boiling Point (f):</b>	>250°	<b>Specific Gravity (H2O=1):</b>	0.77-0.8
<b>Vapor Pressure (MM HG):</b>	2258	<b>Color:</b>	STRAW-GOLDEN
<b>Vapor Density (Air=1):</b>	1.7	<b>Odor:</b>	WINTERGREEN
<b>PH @ 100% :</b>	N/A	<b>Clarity</b>	TRANSPARENT
<b>% Volatile by Volume:</b>	85	<b>Evaporation Rate (BU A/C=1):</b>	36.8
<b>H2O Solubility:</b>	NEGLIGIBLE	<b>Viscosity:</b>	NON-VISCOUS

**SECTION IV - FIRE AND EXPLOSION HAZARD**

<b>Flash Point:</b>	<b>Flammable Limits:</b>	<b>LEL:</b>	<b>UEL:</b>
78°F / SETAFLASH	PETROLEUM DIST./PROPANE	0.5	9.5

**Extinguishing Media:**

Foam:X      Alcohol Foam:      CO2:X      Dry Chemical:X      Water Spray:X      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:**

FLASHBACK. PRODUCT MAY PRODUCE A FLOATING FIRE HAZARD AS LIQUID FLOATS ON WATER. FLAME EXTENSION IS >30 INCHES, BURNBACK IS 0 INCHES.

**Aerosol Level (NFPA 30B):**

3

**NFPA Hazard Rating:** (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

Health:1

Flammability:4

Instability:0

Special:

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**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, TEARING, AND REDNESS. SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS. PROLONGED OR REPEATED CONTACT AS FROM CLOTHING WET WITH MATERIAL MAY CAUSE DRYING, DEFATTING, AND CRACKING OF THE SKIN. INHALATION: MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. AT LOW VAPOR CONCENTRATIONS, NO HARMFUL EFFECTS ARE EXPECTED. AT HIGH VAPOR CONCENTRATIONS, INHALATION MAY CAUSE HEART IRREGULARITIES AND CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, DROWSINESS, WEAKNESS, UNCONCIOUSNESS, 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.

**-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. CHRONIC SKIN CONTACT MAY PROMOTE DERMATITIS AND OIL ACNE. IN RARER 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; PREEXISTING LIVER, KIDNEY, AND CARDIOVASCULAR DISEASES. TARGET ORGANS: HEART, LIVER, KIDNEYS, AND CENTRAL NERVOUS SYSTEM. THE PRIMARY ROUTES OF EXPOSURE ARE SKIN AND EYE CONTACT.

**Primary Routes of Entry:**

Inhalation:X

Ingestion:

Absorption:

**Emergency and First Aid Procedures:****-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. 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. INJECTION UNDER THE SKIN, IN MUSCLE, OR INTO THE BLOOD STREAM CAN CAUSE IRRITATION, INFLAMMATION, SWELLING, FEVER, AND SYSTEMIC EFFECTS, AND MILD CENTRAL NERVOUS SYSTEM DEPRESSION. INJECTION OF PRESSURIZED HYDROCARBONS CAN CAUSE SEVERE, PERMANENT TISSUE DAMAGE. INITIAL SYMPTOMS MAY BE MINOR.

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**SECTION VI - TOXICITY INFORMATION****Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:**

IARC: No                      NTP: No                      OSHA: No                      ACGIH: No                      OTHER: No

TOTAL VOC CONTENT: 83.8% BY WEIGHT, 86.7% BY VOLUME, 615.3 G/L  
VOC CONTENT AFTER LVP EXEMPTION: 48.6% BY WEIGHT, 53.9% BY VOLUME, 356.8 G/L

**SYNTHETIC ISOPARAFFINIC HYDROCARBON**

IHL-RAT LC50: >290 PPM 3.  
ORL-RAT LD50: >10 G/KG 3.  
SKN-RBT LD50: >3 G/KG 3.  
SKN SENSITIZER: NO 3.  
SKN IRRITATION: SLIGHT 3.  
EYE IRRITATION: SLIGHT 3.

SYNTHETIC ISOPARAFFINIC HYDROCARBON WAS ADMINISTERED ORALLY 5 DAYS/WEEK TO MALE AND FEMALE RATS AT 100, 500 OR 1000 MG/KG FOR 13 WEEKS. AN ADDITIONAL GROUP WAS DOSED WITH 100 MG/KG FOR 13 WEEKS FOLLOWED BY A 4-WEEK RECOVERY PERIOD. NO MORTALITIES OR CLINICAL EFFECTS WERE OBSERVED. LIVER AND KIDNEY WEIGHTS FOR THE 500 AND 1000 MG/KG EXPOSURE GROUPS WERE SIGNIFICANTLY INCREASED. AFTER THE 4-WEEK RECOVERY PERIOD, THERE WERE NO DIFFERENCES IN ORGAN WEIGHTS. 3.

MINERAL OIL AND HYDROCARBON MISTS DERIVED FROM HIGHLY REFINED OILS AND PETROLEUM DISTILLATES ARE REPORTED TO HAVE LOW ACUTE AND SUB-ACUTE TOXICITIES IN ANIMALS. EFFECTS FROM SINGLE AND SHORT-TERM REPEATED EXPOSURES TO HIGH CONCENTRATIONS 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 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. THESE PETROLEUM DISTILLATES ARE SEVERELY HYDROTREATED, SEVERELY SOLVENT EXTRACTED, AND/OR PROCESSED BY MILD HYDROTREATMENT AND EXTRACTION. FOR THIS REASON, THEY ARE NOT CLASSIFIED AS CANCER HAZARDS. 3.

**LIGHT ALKYLATE PETROLEUM NAPHTHA**

ORL-RAT TDLo: 10 GM/KG/4W-I 4.  
IHL-RAT TCLo: 7500 PPM/13W-I 4.

**MEDIUM ALIPHATIC SOLVENT NAPHTHA**

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.

AT VERY HIGH ORAL DOSES, THIS PRODUCT CAUSED REVERSIBLE DAMAGE TO THE STOMACH, LIVER AND KIDNEY OF MALE RATS. 3.

MALE RATS EXPOSED FOR 90 DAYS BY INHALATION TO VAPORS OF SIMILAR SOLVENTS SHOWED EVIDENCE OF KIDNEY DAMAGE. IN ONE OF THE STUDIES, A LOW GRADE ANEMIA WAS ALSO OBSERVED. 3.

**SEVERELY HYDROTREATED HEAVY NAPHTHENIC PETROLEUM DISTILLATES**

ORL-RAT LD50: >5 G/KG 3.  
SKN-RBT LD50: >3 G/KG 3.  
SKN-RBT IRRITATION <0.5/8.0; NO APPRECIABLE EFFECT 3.  
EYE-RBT IRRITATION <15/110; NO APPRECIABLE EFFECT 3.

**LARD OIL**

NO TOXICITY DATA AVAILABLE

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**SECTION VII - REACTIVITY DATA**

**Stability:**

Stable:X

Unstable:

Conditions to Avoid: AVOID HEAT, HOT SURFACES, SPARKS, AND OPEN FLAMES.

**Incompatibility (Materials to Avoid):**

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; REDUCING AGENTS SUCH AS SODIUM THIOSULFATE.

**Hazardous Decomposition Products:**

OXIDES OF CARBON; ALDEHYDES AND KETONES.

**Hazardous Polymerization:**  
Conditions to Avoid: N/A

May Occur:

Will Not Occur:X

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### **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, 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

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### **SECTION IX - SPECIAL PROTECTION INFORMATION**

#### **Required Ventilation:**

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF VAPORS OR MISTS. 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.

#### **Other Protection:**

WEAR GENERAL-DUTY WORK CLOTHES AND SHOES. REMOVE OIL SOAKED CLOTHING AND SHOES. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE. A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE.

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### **SECTION X - STORAGE AND HANDLING INFORMATION**

#### **Storage Temperature:**

Indoors:X

Outdoors:

Heated:

Refrigerated:

Minimum Temperature:40°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.

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### **SECTION XI - REGULATORY INFORMATION**

#### **Chemical Name**

#### **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

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**SECTION XII - REFERENCES**

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2004.
2. OSHA PEL.
3. VENDOR'S MSDS.
4. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFOWeb, 2005.

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. -----

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:MUTAGENIC, ASPHYX:ASPHYXIAN, PNOS:PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE 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 REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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