# MURRAY CORPORATION MATERIAL SAFETY DATA SHEET

## Part No. 209500 / REFRIGERATION OIL

LABEL BRANDS: MURRAY NAPA ATLAS

### SECTION I - IDENTIFICATION

NAME: Refrigeration Oil

USE: Air Conditioning (Service & Maintenance)
Automotive and Truck Systems

**GRADE:** Refrigerant

CHEMICAL FAMILY: Refined mineral oil

FORMULA: A mixture of liquid hydrocarbons refined from petroleum.

TSCA INVENTORY STATUS:

MANUFACTURER / DISTR.: B-V Associates, Inc. 49640 Martin Drive

Wixom, MI 48096

PRODUCT INFORMATION PHONE: (313) 669-5050 MEDICAL EMERGENCY PHONE: (313) 669-5050

TRANSPORTATION EMERGENCY PHONE:

Chemtrec - (800) 424-9300

SARA/TITLE III STATUS:

See HAZARDOUS COMPONENTS & ADDITIONAL INFORMATION SECTIONS.

#### SECTION II - PHYSICAL DATA

BOILING POINT: 802° degrees F (428° degrees C)

SPECIFIC GRAVITY (Water = 1): .879

VAPOR DENSITY (Air = 1): > 10

VAPOR PRESSURE: < .0001 mm of Hg at 20° degrees C

**EVAPORATION RATE:** Negligible

pH INFORMATION: N/A

PERCENT VOLATILE BY VOLUME: Negligible

**SOLUBILITY IN WATER: Insoluable** 

FORM: Viscous liquid
APPEARANCE: Clear fluid

COLOR: Straw/Amber ODOR: Petroleum odor

#### SECTION III - HAZARDOUS COMPONENTS

MATERIALS: Non-hazardous refined mineral oil

CAS No.: 72623-85-9, 64741-88-4, 64742-52-5

**CLASSIFICATION:** Non-hazardous

**APPROXIMATE %: 100** 

#### SECTION IV - HAZARDOUS REACTIVITY DATA

STABILITY: Material is stable. However, avoid open flames and high temperatures.

INCOMPATIBILITY: Strong oxiidizing agents such as chromic acid, hydrogen peroxide or bromine.

**DECOMPOSITION:** Upon combustion, CO<sub>2</sub> and CO are generated.

**POLYMERIZATION: Will not occur** 

#### SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT: 495° degrees F (257° degrees C) COC

FLAMMABLE LIMITS IN AIR (% BY VOLUME): Upper - N/A

Lower - N/A

**AUTOIGNITION TEMPERATURE:** Not determined

**AUTODECOMPOSITION TEMPERATURE: N/A** 

FIRE AND EXPLOSION HAZARDS: N/A

EXTINGUISHING MEDIA; Drychemical or regular foam

SPECIAL FIREFIGHTING INSTRUCTIONS: Fight as a Class B fire. Wear self contained breathing apparatus (SCBA). Water spray is an unsuitable extinguishing agent (solid streams likely to spread fire).

#### SECTION VI — HEALTH HAZARD DATA

PRINCIPLE HEALTH HAZARDS (Including significant routes, effects, symptoms of overexposure and medical conditions aggravated by exposure):

Inhalation of vapor in high concentration can cause headache. Minimal external irritation, minimal gastrointestinal, slightly toxic.

CARCINOGENICITY: Not listed as carcinogen by IARC, NTP, OSHA, ACGIH

EXPOSURE LIMITS: PEL (OSHA): 5 mg/m<sup>3</sup>
TLV \*(ACGIH): N/A

\* TLV is a Registered Trademark of the American Conference of Governmental Industrial Hygienists.

SAFETY PRECAUTIONS: Avoid breathing vapors and liquid contact with skin or eyes. Use with sufficient ventilation to keep employee exposure below recommended limits.

FIRST AID:

(IF HIGH CONCENTRATIONS ARE INHALED): None normally required.

IN CASE OF SKIN CONTACT: Throughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

IN CASE OF EYE CONTACT: Immediately flush with large quantities of water for 15 minutes. Contact physician.

IF SWALLOWED: Contact physician immediately. Do not induce vomiting (has laxative effect).

NOTE TO PHYSICIAN: None

#### SECTION VII - PROTECTION INFORMATION

GENERALLY APPLICABLE CONTROL MEASURES:

General ventilation is adequate. No special precautions needed for standard manufacturing procedures.

#### PERSONAL PROTECTIVE EQUIPMENT:

Wear oil resistant rubber gloves (PVA, Nitrile, etc.).
Wear chemical splash goggles where required.
Wear a protective rubber apron if contact is consistant.

#### **IDENTITY: 2195 RESTORE WIPES** DATED:08/16/02

#### SECTION I - MANUFACTURED FOR

PRO CHEM, INC. - 1475 BLUEGRASS LAKES PARKWAY - ALPHARETTA, GA. 30004 - EMERGENCY AND INFORMATION#: (800) 241-8180

#### SECTION II - HAZARDOUS INGREDIENTS

THIS PRODUCT CONTAINS NO HAZARDOUS INGREDIENTS.

BOILING POINT: (LIQUID ONLY) > 212 Deg F

SOLUBILITY (LIQUID ONLY): TOTAL VAPOR PRESSURE (mm Hg.): N/A VAPOR DENSITY (AIR=1): N/A

SECTION III - PHYSICAL DATA

APPEARANCE: WHITE, SOFT, NONABRASIVE, NON WOVEN, SYNTHETIC BLEND WIPES MOISTENED WITH COLORLESS, LEMON FRAGRANCED LIQUID.

SPECIFIC GRAVITY (H20=1):APPROX 1 g/ml

MELTING POINT:

**EVAPORATION RATE(): < 1** 

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: (LIQUID ONLY)(NON AEROSOL) > 212 Deg F

METHOD USED:N/A LEL:N/A

FLAMMABILITY LIMIT: N/A

UEL: N/A

EXTINGUISHING MEDIA: USE NORMAL FIRE FIGHTING PROCEDURES

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN

SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: NONE IDENTIFIED

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS, STRONG ACIDS, STRONG BASES HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR CONDITIONS TO AVOID: NONE KNOWN.

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY:

INHALATION? N.

SKIN? N.

INGESTION? N.

EYES? N.

HEALTH HAZARDS (ACUTE AND CHRONIC): PRODUCT IS NOT CONSIDERED HARMFUL. INHALATION: (LIQUID ONLY) MAY CAUSE SLIGHT IRRITATION TO MUCOUS MEMBRANES. EYE CONTACT (LIQUID ONLY): MAY IRRITATE EYES. INGESTION: MAY CAUSE NAUSEA, VOMITING, UPSET STOMACH, DIARRHEA. SKIN CONTACT (LIQUID ONLY): MAY IRRITATE SENSITIVE SKIN.

CARCINOGENICITY:

NTP? N.

IARC MONOGRAPHS? N.

OSHA REGULATED? N.

SIGNS AND SYMPTOMS OF EXPOSURE: NONE

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE IDENTIFIED

EMERGENCY AND FIRST AID PROCEDURES: INGESTION (LIQUID ONLY) - DO NOT INDUCE VOMITING. RINSE MOUTH WELL WITH WATER. DRINK LARGE GLASS OF WATER. OFFER MILK. SEEK MEDICAL ATTENTION. EYES (LIQUID ONLY) - FLUSH WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS GET MEDICAL HELP. INHALATION (LIQUID ONLY) - FRAGRANCE IS NOT HARMFUL (LIQUID ONLY) FLUSH WITH WATER

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ABSORB SPILLED LIQUID INTO ABSORBENT MEDIA. SMALL SURFACE FILMS CAN BE WASHED DOWN THE DRAIN

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS FOR NON HAZARD-OUS MATERIALS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE IN ORIGINAL SHIPPING CONTAINERS. UNDER COVER AND IN AMBIENT TEMPERATURES, NOT EXCEEDING 113 F. NEVER STORE IN DIRECT HEAT OR SUNLIGHT. AVOID STORAGE IN FREEZING TEMPERATURES, KEEP CLOSED WHEN NOT IN USE. SHELF LIFE IS AT LEAST 18 MONTHS. DO NOT STORE IN EXTREME TEMPERA-

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN, READ & FOLLOW LABEL DIRECTIONS

### SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NON REQUIRED

**VENTILATION: NORMAL INDOOR VENTILATION IS ADEQUATE** 

LOCAL EXHAUST:

PROTECTIVE GLOVES: NONE REQUIRED

MECHANICAL (GENERAL): Y.

SPECIAL: NONE.

OTHER LIMITS: NONE.

EYE PROTECTION: NONE REQUIRED

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NONE NEEDED

WORK & HYGIENIC PRACTICES: RINSE HANDS AFTER HANDLING

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

OTHER PRECAUTIONS:

SECTION 313 SUPPLIER NOTIFICATION