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MATERIAL SAFETY DATA SHEET

EMERGENCY OVERVIEW

This clear liquid with a little or no odor is a volatile and combustible hydrocarbon solvent with acute toxicity. Keep product away from ignition sources in an emergency response. Containers should be grounded during product transfer. Aspiration of liquid into the lungs can produce chemical pneumonia or even death.

NFPA RATING: HEALTH: 0 FLAMMABILITY: 2 REACTIVITY: 0

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: Dry cleaners solvent

ISSUE DATE: February 17, 2006

THIS LUBRICANTS USA PRODUCT IS:

ODORLESS FINASOL

CAS NUMBER:

Mixture

SYNONYMS / GENERAL NAMES:

Aliphatic solvent naphtha, C9-C12

24 HOUR EMERGENCY TELEPHONE:

(CHEMTREC) 1-800-424-9300

TECHNICAL INFORMATION:

1-800-442-5823

2. COMPOSITION / INFORMATION ON INGREDIENTS / HAZARDOUS INGREDIENTS

| COMPONENTS | CAS NO. | % | HAZARD DATA |
|------------------------|----------------------------|-----|--------------------------------|
| Aliphatic hydrocarbon* | 68551-16-6 or 8052-41-3 | 100 | TVA 100 ppm = 525 mg/m3 TWA |

* Comprising either isoparaffins (C9-C11) or a mixture of (C9-C12) paraffins and cycloparaffins.

HAZARDOUS INGREDIENTS: NO

HAZARDOUS PER 29 CFR 1916.1200: NO

3. HAZARDOUS IDENTIFICATION

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| ROUTES OF ENTRY: | Skin or eye contact, inhalation, ingestion |
| TARGET ORGANS: | May cause lung, digestive system, skin or eye damage. |
| IRRITANCY: | Vapor concentrations above 1000 ppm are irritating to the eyes and respiratory tract and may cause headaches, dizziness and other central nervous system effects. This product can cause mild, transient, eye irritation with short-term contact with liquids or sprays. It may cause itching, scaling, reddening or occasionally blistering of skin. |
| INHALATION | Exposure to high vapor concentrations may produce headache, giddiness, vertigo and anesthetic stupor. |
| REPRODUCTIVE EFFECTS: | N/D |
| CANCER INFORMATION: | N/D |

4. FIRST AID MEASURES

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| EYES: | Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness or pain persists. |
| DERMAL: | Remove contaminated shoes and clothing, wipe off excess material. Wash exposed skin with soap and water. Seek medical attention if tissue appears damaged or if irritation |

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| | persists. Thoroughly clean contaminated clothing before reuse. Discard contaminated leather goods. |
| INGESTION: | Do not induce vomiting unless directed to by a physician. Do not give anything to drink unless directed to by a physician. Never give anything by mouth to a person who is not fully conscious. Seek medical attention immediately. Possible effects are headache, drowsiness, nausea, fatigue, pneumonitis, pulmonary edema, and central nervous system depression— aspiration hazard. |
| INHALATION: | Move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If breathing is difficult, a qualified individual should administer 100 percent humidified oxygen. Seek medical attention immediately. Keep the affected individual warm and at rest. |
| INJECTION: | Injection of pressurized hydrocarbons can cause severe, permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention. |

5. FIRE FIGHTING MEASURES

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| FLASH POINT, °C(°F): | 39.4°C (103 F) Tag Closed Cup |
| FLAMMABLE LIMITS (% BY VOLUME): | LOWER: 0.7% UPPER: 6% |
| EXTINGUISHING MEDIA: | For small fires, class B fire extinguishing media such as CO2, dry chemical, foam can be used. For larger fires water spray, fog or foam (AFFT/ATC) can be used. |
| SPECIAL FIRE FIGHTING PROCEDURES: | N/A |
| AUTOIGNITION TEMPERATURE: | 336 C (637 F) |
| EXPLOSION DATA: | N/A |
| NFPA RATING: | HEALTH: <u>2</u> FLAMMABILITY: <u>2</u> REACTIVITY <u>1</u> |

6. ACCIDENTAL RELEASE MEASURES

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| SPILL PROCEDURES: | Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Seek cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Comply with all laws and regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material. |
| Ecotoxicity | Ecological effects testing has not been conducted on this material. Discharges are expected to cause only localized and non-persistent environmental damage. 96 hr LC50 of a water accommodated fraction of mineral spirits is >1000 mg/l for rainbow trout. |
| Environmental fate | An environmental fate analysis has not been conducted on this specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products. Petroleum-based fluids will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. |

7. HANDLING AND STORAGE

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| HANDLING & STORAGE PROCEDURES: | This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode. |
| | Keep product away from ignition sources, such as heat, sparks, pilot lights, static electricity and open flames. |
| | Keep container closed. Do not store with strong oxidizing agents. Do not store at temperatures above 120°F or in direct sunlight for extended periods of time. |
| | <u>Empty containers may contain product residues that can ignite with explosive force. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to flames, sparks, heat or other potential ignition sources; the drum could explode and cause injury or death.</u> |

Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

For work on tanks refer to Occupational Safety and Health Administration (OSHA) regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| ENGINEERING CONTROLS: | <p>To prevent fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system in accordance with the National Fire Protection Association (NFPA) publications.</p> <p>Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. To prevent fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system in accordance with the NFPA standard for petroleum products.</p> <p>In order to prevent fire or explosion hazards, use appropriate equipment. Risk of explosion of the product in presence of mechanical impact is not expected. Risk of explosion of the product in presence of static discharge is expected.</p> <p>Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National electrical Code (NFPA-70). This document is available from the NFPA, Batterymarch Park, Quincy, Massachusetts 02269.</p> |
| GLOVES PROTECTION: | Use gloves constructed of chemical resistant materials if needed, to avoid prolonged or repeated skin contact. |
| EYE PROTECTION: | Use splash goggles or face shield when eye contact may occur. |
| RESPIRATORY PROTECTION: | Up to 1000 ppm, half mask organic vapor respirator. Up to 5,000 ppm, full-face organic vapor respirator or full face supplied air respirator. Use supplied-air respiratory protection for unknown concentrations or in confined or enclosed spaces, if needed. |
| CLOTHING RECOMMENDATION: | If splashing or spraying is expected chemical-resistant (Tyvek®, nitrile or neoprene) clothing should be worn. This might include long-sleeves, apron, slicker suit, boots and additional facial protection. If general contact occurs, promptly remove soaked clothing and take a shower. |
| OTHER COMMENTS: | <p>Use good personal hygiene practices. Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.</p> <p>Maintain local or dilution ventilation to keep air concentration below 100 ppm. Loading, unloading, tank gauging, etc., remain upwind. Request assistances of safety and industrial hygiene personnel to determine air concentrations.</p> |
| Occupational exposure guidelines | <p>Exposure limit for solvent 8 hour workday is TWA 100 ppm ACGIH and OSHA 100 ppm = 525 mg/M³</p> |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| APPEARANCE: | Clear nearly colorless liquid |
| ODOR: | Little or no petroleum odor |
| pH: | Neutral |
| VAPOR PRESSURE, mm Hg (25°C): | 6.18 mm HG @ 38 C (100 F) |
| VAPOR DENSITY: | 5 (Air =1) |
| MELTING POINT: | NA |
| BOILING RANGE, 760 mm Hg, °C: | ibp 300 F (149 C) |

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| SOLUBILITY IN WATER: | Insoluble in cold water. |
| SPECIFIC GRAVITY: | 0.74-0.78 (Water = 1) |
| EVAPORATION RATE: | <1 |
| VISCOSITY 40°C (100°C) | 1.1 cSt |
| MOLECULAR WEIGHT: | 130-150 |
| PERCENT VOLATILE: | 100% |

10. STABILITY AND REACTIVITY

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| STABILITY: | Stable |
| INCOMPATIBILITY: | Strong oxidizers would present a serious explosion hazard |
| POLYMERIZATION: | Not expected to occur |
| THERMAL DECOMPOSITION: | CO ₂ , CO, smoke, fumes, unburned hydrocarbons. |

11. TOXICOLOGICAL INFORMATION

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| EYE IRRITATION: | This product can cause mild, transient, eye irritation with short-term contact with liquid or sprays. |
| DERMAL IRRITATION: | Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judge to be neither a corrosive nor an irritant by OSHA criteria. LD50/rat/34.6 g/kg. CAS 8052-41-3 dermal rabbit >3.16 gm/kg |
| INHALATION TOXICITY: | Acute toxicity CAS 8052-41-3. Rat >3.6 gm/kg |
| INGESTION IRRITATION: | Acute oral toxicity based on similar materials. LD50 rat/34.6 g/kg |
| CHRONIC EXPOSURE SYMPTOMS | |
| OTHER REMARKS | |

12. HEALTH INFORMATION

HMIS CODE: HEALTH: 0 FIRE: 2 REACTIVITY: 0

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|----|---------------------|----|-----------------------------|
| No | HIGHLY TOXIC | No | SENSITIZER |
| No | TOXIC | No | REPRODUCTIVE EFFECTS |
| No | CORROSIVE | No | MUTAGEN |
| No | IRRITANT | | |

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Determine compliance status with all applicable requirements prior to disposal.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

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|--------------------------------------|---|
| PROPER SHIPPING NAME: | Hydrocarbons, liquid, NOS 3, UN 3295, III |
| HAZARD CLASS: | DOT CLASS 3 Combustible liquid with flash point above 37.8 C (100F) |
| HAZARD IDENTIFICATION NUMBER: | UN 3295, PG III Flammable liquids nos 3 |
| DOT PLACARD: | |
| COMPATIBILITY CATEGORY: | N/A |

15. REGULATORY INFORMATION

SARA SECTION 301-304—THRESHOLD PLANNING QUANTITY (TPQ):
No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

SARA SECTION 313 - TOXIC CHEMICALS:
The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund

Amendments and reauthorization act of 1986 and 40 CFR Part 372: None.

SARA SECTION 311 - HAZARD CATEGORIES:

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

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|-----|--|----|--|
| YES | IMMEDIATE (ACUTE) HEALTH HAZARD | NO | SUDDEN RELEASE OF PRESSURE HAZARD |
| NO | DELAYED (CHRONIC) HEALTH HAZARD | NO | REACTIVE HAZARD |
| YES | FIRE HAZARD | | |

SARA SECTION 302 - EXTREMELY HAZARDOUS WASTE:

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

CLEAN WATER ACT (CWA):

Under the CWA, discharges of crude oil and petroleum products to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

CERCLA HAZARDOUS SUBSTANCES:

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance.

U.S. TSCA INVENTORY

All components of this material are listed on the U.S. TSCA Inventory.

CALIFORNIA PROPOSITION 65

This product contains the following components for which the State of California has found to cause cancer, birth defects or other reproductive harm: none

NEW JERSEY RIGHT-TO-KNOW LABEL

Petroleum distillate.

ADDITIONAL REGULATORY REMARKS

Volatile Organic compounds (VOC) 100%. This product is NOT exempt from VOC reporting.

16. OTHER INFORMATION

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information was prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Lubricants USA believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is.

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|---------------------------|-----------|------------|--------------|----------|-------------|
| NFPA HAZARD RATING | least - 0 | slight - 1 | moderate - 2 | high - 3 | extreme - 4 |
| HMIS HEALTH RATING | least - 0 | slight - 1 | moderate - 2 | high - 3 | extreme - 4 |

AP = approximately EQ = equal > = greater than < = less than NA = not applicable
 ND = no data NE = not established

- ACGIH = American Conference of Governmental Industrial Hygienists
- AIHA = American Industrial Hygiene Association
- CERCLA = Comprehensive Environmental Response, Compensation and Liability Act (1980)
- EPA = Environmental Protection Agency
- HMIS = Hazardous Materials Information System
- IARC = International Agency for Research on Cancer
- NFPA = National Fire Protection Association
- NIOSH = National Institute of Occupational Safety and Health
- NLGI = National Lubricating Grease Institute
- NPCA = National Paint and Coating Manufacturers Association
- NTP = National Toxicology Program
- OSHA = Occupational Safety and Health Administration
- RQ = Reportable quantity

SARA = Superfund Amendments and Reauthorization Act (1986)
TSCA = Toxic Substance Control Act