

SAFETY DATA SHEET

SECTION I PRODUCT IDENTIFICATION

January 2016

PRODUCT NAME: : FF-99 SOLVENT

KAMPEL ENTERPRISES, INC.
8930 CARLISLE ROAD, PO BOX157
WELLSVILLE, PA 17365-0157

PHONE: 717-432-9688

FOR EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE PLEASE CONTACT:
24 Hour EMERGENCY PHONE: 800-535-5053 / 352-323-3500

HAZARD RATING: (0=LEAST 1=SLIGHT 2=MODERATE 3=HIGH 4= EXTREME)

HEALTH: 2

FIRE: 3

REACTIVITY: 0

SECTION II INGREDIENTS AND OCCUPATIONAL EXPOSURE LIMITS

COMPOSITION C.A.S. NUMBER OCCUPATIONAL EXPOSURE LIMITS

| COMPOSITION | C.A.S. NUMBER | OCCUPATIONAL EXPOSURE LIMITS | | | |
|------------------------|---------------|------------------------------|-------------------------|------------------|-------------------|
| | | OSHA (1989) PEL/TWA | OSHA (1989) PEL/STEL | ACGIH TLV/TWA | ACGIH TLV/STEL |
| TOLUENE | 108-88-3 | 100 ppm | 150 ppm | 50 ppm | ----- |
| METHYL ETHYL KETONE | 78-93-3 | 200 ppm | 300 ppm | 200 ppm | 300 ppm |
| METHYL ISOBUTYL KETONE | 108-10-1 | 50 ppm | 75 ppm | 50 ppm | 75 ppm |
| ISOPROPANOL | 67-63-0 | 400 ppm | 500 ppm | 400 ppm | 500 ppm |

SECTION III HEALTH INFORMATION

ACUTE TOXICITY: Overexposure can lead to central nervous system depression producing such effects as headache, dizziness, nausea and loss of consciousness.

EYE CONTACT: Short-term liquid or vapor contact may result in slight eye irritation. Prolonged and repeated contact may be more irritating.

SKIN CONTACT: Prolonged and repeated liquid contact can cause defatting and drying of the skin which may result in skin irritation or dermatitis.

INHALATION: High concentration and/or long-term exposure may irritate mucous membranes of the respiratory tract. Headaches, dizziness and nausea, as well as unconsciousness may result from overexposure to high concentrations over extended periods.

INGESTION: Liquid ingestion may result in vomiting, nausea, dizziness, and possible unconsciousness. Aspiration (breathing in) of liquid into the lungs MUST BE AVOIDED as liquid contact with the lungs can result in chemical pneumonitis and pulmonary edema/hemorrhage.

OTHER: NONE

SECTION IV EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for at least 15 minutes while holding eyelids open.. Get medical attention if irritation persists.

SKIN CONTACT: Flush area with water. Remove contaminated clothing and shoes. Wash area(s) effected with soap and water. Do not reuse clothing or shoes until cleaned. If irritation persists, seek medical attention.

INHALATION: If breathing difficulties, dizziness, or light headedness occur when working in areas of high vapor concentration, get victim to fresh air. If breathing stops administer artificial respiration, preferably mouth to mouth. Seek medical attention.

INGESTION: DO NOT INDUCE VOMITING, But if vomiting occurs spontaneously, keep head below the hips to prevent aspiration of liquid into the lungs. Seek medical attention. DO NOT GIVE LIQUIDS.

OTHER: NONE

SECTION V PHYSICAL DATA

| | | |
|---|---|---|
| BOILING POINT 175 (F) | MELTING POINT -118 (F) EST | VAPOR PRESSURE 29.3 (mmHg) |
| SPECIFIC GRAVITY (H ₂ O=1): 0.8318 @ 60 (F) 6.941#/gal | % VOLATILE BY VOLUME 100 | VAPOR DENSITY (AIR=1): 2.90 |
| SOLUBILITY IN WATER Moderate | EVAPORATION RATE (BUTYL ACETATE - 1) 2.52 | AUTO IGNITION TEMPERATURE 662 (F) EST |

APPEARANCE AND ODOR: WATER WHITE LIQUID WITH A MILD KETONE ODOR

SECTION VI FIRE AND EXPLOSION HAZARDS

| | | | |
|---|---|--------------|---------------|
| FLASH POINT AND METHOD USED 20 (F): T.C.C. | FLAMMABLE LIMITS / % VOLUME IN AIR (EST) | LOWER 1.2 | UPPER 12.7 |
|---|---|--------------|---------------|

EXTINGUISHING MEDIA

Use Water Fog, "Alcohol" Foam, Dry Chemical, Carbon Dioxide

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

DANGER! FLAMMABLE! Clear fire area of unprotected personnel. ATTENTION! DO NOT enter confined fire space without full Bunker Gear (Helmet with face shield, Bunker Coats, Gloves and Rubber Boots), including a Positive Pressure NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor is heavier than air and may travel a considerable distance to source of ignition and flashback. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.

SECTION VII REACTIVITY

STABILITY () UNSTABLE (X) STABLE

HAZARDOUS POLYMERIZATION () MAY OCCUR (X) WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

Keep liquid and vapor away from Heat, Sparks and Open Flame. Do not mix or store with Acids, Bases, or other Oxidizing Materials. Prevent vapor accumulation.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Dioxide, Carbon Monoxide and other unidentified organic compounds may be formed during combustion.

SECTION VIII EMPLOYEE PROTECTION

RESPIRATORY PROTECTION:

Use a NIOSH approved respirator as required to prevent overexposure. In accordance with OSHA 29.CFR 1910.134, use either an Atmosphere - supplying respirator or an Air-Purifying respirator for organic vapors.

PROTECTIVE CLOTHING:

Wear Chemical-Resistant (Impervious) gloves (Neoprene, Viton), and other protective clothing as required to minimize skin contact. Wear safety glasses with side shields, goggles or face shield to prevent eye contact. In operations where splashing and spilling occurs, use impervious apron and boots to protect the body.

ADDITIONAL PROTECTIVE MEASURES:

Spark resistant tools are recommended. Use explosion-proof ventilation as required to control vapor concentrations.

Eyewash stations and safety showers should be readily available. Air dry contaminated clothing in a well ventilated area, then launder before reusing. Wash effected areas thoroughly with soap and water after handling.

SECTION IX ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES:

DANGER! EXTREMELY FLAMMABLE! Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking.

LARGE SPILL:

Evacuate the hazard area of unprotected personnel. Wear appropriate protective equipment. Shut off source of leak only if safe to do so. Dike and contain liquid. If vapor cloud forms, water fog may be used to suppress; contain run-off. Remove liquid with vacuum truck or pump to storage/salvage containers. Soak up residue with absorbent materials; place in non-leaking DOT approved containers to await proper disposal. Flush area to remove trace; collect flushings, dispose of properly.

SMALL SPILL:

Take up with an absorbent material and place in non-leaking DOT approved container; seal tightly and dispose of properly.

WASTE DISPOSAL:

Dispose of through RCRA approved TS&D facility. Use non-leaking 17E or tightly sealed 17H drums. Label properly. Check state and local laws. Methods of disposal: Incineration or Recycling.

ENVIRONMENTAL HAZARDS:

This product is a hazardous material and should not be allowed to enter surface waters, sewer systems, and drainage areas. Release to environment may be reportable under environmental regulations.

SECTION X SPECIAL PRECAUTIONS

DANGER! EXTREMELY FLAMMABLE!

Keep liquid and vapor away from heat, sparks and flame.

Use spark resistant tools. Ground all equipment. Bond and ground transfer equipment.

Do not weld, drill or grind on containers. Empty containers may contain explosive or flammable vapors.

Empty containers are still considered hazardous. Keep container tightly closed.

Store properly out of weather when possible.

Surfaces that are sufficiently hot may ignite liquid material even in absence of spark or flames.

SECTION XI TRANSPORTATION REQUIREMENTS

FLAMMABLE LIQUID COMBUSTIBLE LIQUID

DEPARTMENT OF CORROSIVE MATERIAL NOT HAZARDOUS BY D.O.T. REGULATIONS
TRANSPORTATION

CLASSIFICATION OTHER Specify Below

D.O.T. PROPER SHIPPING NAME

Contact your Kampel Enterprises, Inc. Representative for up to date DOT information.

SECTION XII OTHER REGULATORY CONTROLS

EPA, FDA, OSHA, USDA, CPSC, ECT.

SECTION XIII ENVIRONMENTAL DATA

PRODUCT NAME FF-99 SOLVENT

SECTION XIV PRODUCT COMPOSITION

| <u>NO.</u> | <u>COMPONENT</u> | <u>TLV</u> | <u>CAS NUMBER</u> | <u>PERCENT BY WEIGHT</u> |
|------------|------------------------|------------|-------------------|------------------------------|
| P | SF-99 Solvent | --- | Mixture | percentages are confidential |
| 1 | Toluene | 50ppm | 108-88-3 | percentages are confidential |
| 2 | Methyl Ethyl Ketone | 200ppm | 78-93-3 | percentages are confidential |
| 3 | Methyl Isobutyl Ketone | 50ppm | 108-10-1 | percentages are confidential |
| 4 | Isopropanol | 400ppm | 67-63-0 | percentages are confidential |

SECTION XV SARA TITLE III INFORMATION

| NO. | EHS RQ (*1) | (Lbs) EHS | TPQ (*2) | (Lbs) | SEC 313 (*3) | 313 | CATEGORY (*4) | 311/312 CATEGORIES (*5) |
|-----|----------------|-----------|-------------|-------|-----------------|-----|------------------|----------------------------|
| P | | | | | --- | | | H-1, H-2, P-3 |
| 1 | | | | | YES | | | |
| 2 | | | | | YES | | | |
| 3 | | | | | YES | | | |

-----FOOTNOTES-----

*1 - REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC. 302

*2 - THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SEC. 302

*3 - TOXIC CHEMICAL, SEC. 313

*4 - CATEGORY AS REQUIRED BY SEC. 313 (40 CFR 372.65C) MUST BE USED ON TOXIC RELEASE INVENTORY FORM

*5 - HAZARD CATEGORY FOR SARA SEC. 311/312 REPORTING

HEALTH H-1 = IMMEDIATE (ACUTE) HEALTH HAZARD

H-2 = DELAYED (CHRONIC) HEALTH HAZARD

PHYSICAL H-3 = FIRE HAZARD

H-4 = SUDDEN RELEASE OF PRESSURE HAZARD

H-5 = REACTIVE HAZARD

SECTION XVI CERCLA INFORMATION

Under EPA-CWA, this product is classified as an oil under Section 311. Keep out of surface waters, sewer systems and drainage areas. Spills into or leading to surface waters that cause a sheen must be reported to the NATIONAL RESPONSE CENTER, 800-424-8802

EPA-COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT. Under EPA-CERCLA ("SUPERFUND") releases to air, land or water which exceed the reportable quantity must be reported to the NATIONAL RESPONSE CENTER, 800-424-8802. The reportable quantity (RQ) for this product is 1,921 pounds based on component #1.

SECTION XVII RCRA INFORMATION

Under EPA-RCRA (40CFR261.31 and 40CFR261.21), if this product becomes a waste material, it would be IGNITABLE AND TOXIC hazardous waste. Hazardous waste numbers F005, F003, D00 I, Refer to latest EPA or STATE REGULATIONS regarding proper disposal.

The information contained herein is based on the data available to us and is believed to be correct. However, Kampel Enterprises, Inc. makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Kampel Enterprises, Inc. assumes no responsibility for injury to vendee or third parties from the use of the product described herein.

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