

# MINERAL SPIRITS

|                                |                         |                          |                       |
|--------------------------------|-------------------------|--------------------------|-----------------------|
| MATERIAL SAFETY DATA SHEET     |                         | March 22, 2010           | MSDS NUMBER<br>W-3000 |
| EMERGENCY TELEPHONE<br>NUMBERS | COMPANY<br>405-665-6565 | CHEMTREC<br>800/424-9300 |                       |

## I. PRODUCT IDENTIFICATION

|                                                          |                               |                                                                                                                        |           |                 |
|----------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|
| PRODUCT                                                  | 100 W                         | CHEMICAL NAME AND SYNONYMS<br>Hydrotreated Naphtha, Stoddard Solvent<br>Mineral Spirits, Hydrotreated Light Distillate |           |                 |
| CHEMICAL FAMILY                                          | Petroleum Hydrocarbon Naphtha | FORMULA<br>C8 - C12                                                                                                    |           |                 |
| National Fire Protection Association Hazard Rating Codes |                               | HEALTH CODE                                                                                                            | FIRE CODE | REACTIVITY CODE |
| Least - 0      Slight - 1                                |                               | 1                                                                                                                      | 2         | 0               |
| Moderate - 2      High - 3      Extreme - 4              |                               |                                                                                                                        |           |                 |

## II. SUMMARY OF HAZARDS

CAUTION! COMBUSTIBLE LIQUID AND VAPOR. HARMFUL IF INHALED AND MAY CAUSE DELAYED LUNG INJURY. CAN CAUSE NERVOUS SYSTEM DEPRESSION. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Keep away from heat and flame. Avoid breathing vapor. Use ventilation adequate to keep vapor below recommended exposure limits. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

|                        |                                         |                         |
|------------------------|-----------------------------------------|-------------------------|
| DOT Hazardous Material | DOT SHIPPING NAME AND NUMBER            | DOT HAZARD CLASS        |
| YES                    | Petroleum Products, n.o.s., UN1268, III | 3<br>(Flammable Liquid) |

## III. HAZARDOUS COMPONENTS

| INGREDIENT                                       | % RANGE | PEL/TLV                           | HAZARD                                        |
|--------------------------------------------------|---------|-----------------------------------|-----------------------------------------------|
| Hydrotreated Heavy Naphtha<br>(CAS # 64742-48-9) | 100     | Stoddard Solvent<br>TWA - 100 ppm | Combustible<br>Acute Health<br>Chronic Health |

#### IV. HEALTH INFORMATION

| EXPOSURE BY<br>ROUTE OF ENTRY | EXPOSURE CHARACTERISTICS AND FIRST AID |                                                                                                                                                                            |
|-------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INHALATION                    | EFFECTS                                | Acute: Headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions, and loss of consciousness. |
|                               | FIRST AID                              | Move exposed person to fresh air. If breathing has stopped, perform artificial respiration. Get medical attention as soon as possible.                                     |
| SKIN                          | EFFECTS                                | Acute: irritation<br>Chronic: dermatitis                                                                                                                                   |
|                               | FIRST AID                              | If clothing soaked, immediately remove clothing and wash skin with soap and water. Launder clothing before wearing. Get medical attention promptly.                        |
| EYES                          | EFFECTS                                | Acute: irritation                                                                                                                                                          |
|                               | FIRST AID                              | Immediately flush eyes with water for a minimum of 15 minutes, occasionally lifting the lower and upper lids. Get medical attention promptly.                              |
| SWALLOWING<br>INGESTION       | EFFECTS                                | Acute: aspiration hazard, headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary edema, central nervous system depression, convulsions and loss of consciousness.   |
|                               | FIRST AID                              | Call a physician immediately, ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person                                |

Medical conditions Generally

Agravated by Exposure

N/AV

LISTED AS

POTENTIAL CARCINOGEN

OR CARCINOGEN

NOT LISTED X

INTERNATIONAL Agency for Research on Cancer \_\_\_\_\_

NATIONAL TOXICOLOGY PROGRAM \_\_\_\_\_

OSHA \_\_\_\_\_

## V. EMPLOYEE PROTECTION

RESPIRATORY PROTECTION (NIOSH APPROVED RESPIRATORS SEE OSHA STD. 1910.134)

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. Greater than 5,000 ppm, fire fighting, or unknown concentration, self-contained breathing apparatus with positive pressure.

|      |                                                                   |
|------|-------------------------------------------------------------------|
| EYE  | Safety glasses, chemical goggles or face shield as appropriate.   |
| SKIN | Gloves: Nitrile, neoprene or other material resistant to naphtha. |

### VENTILATION

Maintain local or dilution ventilation to keep air concentration below 100 ppm. Loading, unloading, tank gauging, etc., remain upwind. Request assistance of safety and industrial hygiene personnel to determine air concentrations.

## VI. FIRE PROTECTION INFORMATION

|                        |                                       |                                               |              |            |
|------------------------|---------------------------------------|-----------------------------------------------|--------------|------------|
| FLASH POINT AND METHOD | AUTOIGNITION TEMPERATURE<br>ESTIMATED | FLAMMABLE LIMITS % VOLUME IN AIR<br>ESTIMATED | LOWER<br>0.7 | UPPER<br>6 |
| Tag Closed Cup 100 °F  | 540 °F                                |                                               |              |            |

### EXTINGUISHING MEDIA

Carbon dioxide, dry chemical, or foam. Water stream may spread fire, use water spray only to cool containers exposed to fire. If leak or spill has not ignited, use water spray to disperse the vapors.

### HAZARDOUS DECOMPOSITION PRODUCTS

Incomplete combustion can yield carbon monoxide and various hydrocarbons.

### FIRE AND EXPLOSION HAZARDS

Can form combustible mixtures with air when heated.

### STORAGE

Do not store with strong oxidizers. Store as OSHA Class II combustible liquid.

|                                                                                                                   |                                                                                           |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| HAZARDOUS POLYMERIZATION<br>WILL NOT OCCUR <input checked="" type="checkbox"/> MAY OCCUR <input type="checkbox"/> | STABILITY<br>STABLE <input checked="" type="checkbox"/> UNSTABLE <input type="checkbox"/> |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

## VII. PHYSICAL AND CHEMICAL PROPERTIES

|                                       |                                                          |                                                           |
|---------------------------------------|----------------------------------------------------------|-----------------------------------------------------------|
| BOILING POINT<br>300 - 410 °F         | Reid VAPOR PRESSURE (RVP) at 100 °F<br>ESTIMATED 1 pound | EVAPORATION (ETHYL ETHER = 1)<br>ESTIMATED 4 times slower |
| PERCENT VOLATILE BY VOLUME<br>(%) 100 | AVG. MOLECULAR WEIGHT<br>140                             | APPEARANCE<br>Clear Liquid                                |
| ODOR<br>Petroleum Naphtha             | DROP POINT<br>N/A                                        | ESTIMATED VAPOR DENSITY (AIR = 1)<br>5                    |
| SPECIFIC GRAVITY<br>0.8               | VISCOSITY<br>1 cs at 100 °F                              | SOLUBILITY (G/100g WATER AT 20° C)<br>Negligible          |

### VIII. ENVIRONMENTAL PROTECTION

|                                                          |                                                                                                                                                                                                                                               |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S<br>P<br>I<br>L<br>L<br>S                               | Notify emergency response personnel. Evacuate area and remove ignition sources. Build dike to contain flow. Remove free liquid, do not flush to sewer or open water. Pick up with inert absorbent and place in closed container for disposal. |
| D<br>W<br>I<br>A<br>S<br>P<br>T<br>O<br>S<br>E<br>A<br>L | Utilize licensed waste disposal company. Consider recycling or incineration. Utilize permitted hazardous waste disposal site or industrial waste disposal site as appropriate.                                                                |

#### ADDITIONAL INFORMATION

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:  
Benzene(CAS # 71-43-2): Product contains less than 0.1 weight %

TSCA: This product is listed on the TSCA Inventory as a UVCB(Unknown, Variable Composition or Biological) chemical at CAS Registry Number 64742-48-9.

#### CALIFORNIA PROPOSITION 65:

This product does not contain any chemicals which require warning under California Proposition 65.

|                |                |
|----------------|----------------|
| PREPARED BY    | DATE PREPARED  |
| Johnnie L. Ray | March 22, 2010 |

#### DISCLAIMER

The information and recommendations contained in this publication have been compiled from sources believed to be reliable and to represent the best current opinion on the subject at the time of publication. Since we cannot anticipate or control the many different conditions under which this information or our products may be used, we make no guarantee that the recommendations will be adequate for all individuals or situations. Each user of the product described herein should determine the suitability of the described product for his particular purpose and should comply with all federal and state rules and regulations concerning the described product.

#### ABBREVIATIONS

|       |                                                                                                                                                                                  |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS # | Chemical Abstracts Service Number                                                                                                                                                |
| N/A   | Not Applicable                                                                                                                                                                   |
| N/AV  | Not Available                                                                                                                                                                    |
| ppm   | Parts per million                                                                                                                                                                |
| PEL   | Permissible Exposure Limit                                                                                                                                                       |
| TLV   | Threshold Limit Value                                                                                                                                                            |
|       | Both the OSHA PEL and the American Conference of Governmental Industrial Hygienists TLV were reviewed. Where a difference existed, the more restrictive of the two was selected. |
| STEL  | Short Term Exposure Limit                                                                                                                                                        |
| TWA   | Time-Weighted Average                                                                                                                                                            |
| TSCA  | Toxic Substance Control Act                                                                                                                                                      |