


MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

| | | |
|--|--|---|
| PRODUCT NAME: Rubber Cement GENERAL USE: Rubber Adhesive PRODUCT DESCRIPTION: Light yellow clear viscous liquid with solvent odor. | |  |
| Manufacturers Name: Yee Jee Technology Co., Ltd. | DATE PREPARED: 12/26/2007 SUPERSEDES: 03/12/2001 | Page 1 of 6 |
| ADDRESS (NUMBER, STREET, P.O. BOX) 195, Kuo Chung Road, | TELEPHONE NUMBER FOR INFORMATION / customer service 886-4-2407-6883 | |
| (CITY, STATE AND ZIP CODE) COUNTRY Da-Li City, Taichung Hsien, Taiwan | CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER North America: 1-800-255-3924 International: +01-813-248-0585 | |
| DISTRIBUTOR'S NAME | | |
| ADDRESS (NUMBER, STREET, P.O. BOX) | TELEPHONE NUMBER FOR INFORMATION / customer service | |
| (CITY, STATE AND ZIP CODE) COUNTRY | DISTRIBUTOR EMERGENCY TELEPHONE NUMBER | |

SECTION 2 - HAZARDOUS INGREDIENTS

| Hazardous Components | % (by Weight) | CAS # | EINECS # | Hazard Symbol | RISK PHRASES (Full Text Section 16) |
|----------------------|---------------|------------|-----------|-----------------------------|---|
| Petroleum Distillate | 50-75 | 64742-89-8 | 265-192-2 | +T | R-45 R-65 |
| Heptane | 20-30 | 142-82-5 | 205-563-8 | +F +X _N +N | R-11 R-38 R-50/53 R-65 R-67 |
| 1-Heptene | 5-15 | 25339-56-4 | 246-871-2 | None | None Listed |
| Octane | 111-65-9 | 111-65-9 | 203-892-1 | +F +X _N +N | R-11 R-38 R-50/53 R-65 R-67 |

Notes: Flammability Hazards, and Toxicity Hazards are inherent in this product. Avoid breathing vapor and control all potential sources of ignition.

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| SECTION 3 - HAZARDS IDENTIFICATION | |
| EMERGENCY OVERVIEW: Solvent vapors are toxic by inhalation, may cause cancer, and are extremely flammable. Wear suitable protective equipment when handling, and control all potential sources of ignition. | |
| POTENTIAL HEALTH EFFECTS | |
| INHALATION: Can cause irritation to the nose, throat, and upper respiratory tract. Inhalation can cause dizziness, faintness, drowsiness, ataxia (incoordination). Prolonged exposure by inhalation can cause nausea, vomiting, and gastrointestinal upset. Target organs are Liver, Kidney, Central and peripheral nervous system, respiratory system and eyes. This product may aggravate existing conditions of the Liver, Kidney, Nervous system, Heart, Cardiovascular system, and skin. This product contains ingredients listed as potential carcinogens (cancer causing agents). | |
| SKIN: Can cause mild to moderate irritation. Prolonged or repeated contact can defat the skin, causing irritation and lead to the development of dermatitis. | |
| EYES: Causes mild to severe irritation. Corneal opacification and vascularization can occur. Vapors and/or mists can cause mild to moderate irritation. Can cause conjunctivitis and iritis. | |
| INGESTION: Ingestion causes severe irritation of the mouth, throat, and esophagus. Can cause nausea, vomiting, and gastrointestinal upset. Dizziness, faintness, drowsiness, and ataxia (incoordination) can occur. | |
| CARCINOGENICITY NTP? Yes IARC MONOGRAPHS? Yes (group 2B) OSHA REGULATED? NO CALIFORNIA. Prop. 65? Yes | |
| SECTION 4 - FIRST AID MEASURES | |
| Use good personal hygiene practices. Wash hands and other exposed areas thoroughly before eating, drinking, smoking or using toilet facilities. Do not smoke, drink or eat in areas where this product is stored or handled The work area should be well-ventilated. | |
| INHALATION: Remove victim to fresh air. If not breathing administer artificial respiration. Seek medical attention immediately. | |
| EYES: Seek medical attention immediately. If eyelids can be opened flush for at least 15 minutes with water. | |
| SKIN: Wash contacted area with soap and water. If available use a hand cleaner rated for the removal of adhesives, seek medical attention if irritation of the effected area persists. | |
| INGESTION: Drink large quantities of water or milk. DO NOT INDUCE VOMITING! Obtain medical attention immediately. | |
| SECTION 5 - FIRE FIGHTING MEASURES | |
| GENERAL HAZARDS: Product is very Flammable, toxic solvent vapors may be emitted during fire conditions. | |
| EXTINGUISHING MEDIA Dry chemical, Carbon dioxide, Water spray/fog, or standard foams. | |
| FIRE FIGHTING PROCEDURES Firefighters and others who may be exposed to the products of combustion should be equipped with either a NIOSH or European Standard EN-49 approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS When exposed to flames or high temperatures encountered during fire conditions, sealed containers may rupture due to the buildup of internal pressure. Cool containers with water. Vapors may be heavier than air and may travel considerable distances from the material handling point. Vapors can be ignited by a spark, flame, cigarette, electric motor, static discharge, engine, pilot light, hot surface, or other ignition sources. | |
| HAZARDOUS COMBUSTION PRODUCTS Carbon Monoxide, Carbon Dioxide, Solvent Vapors. | |
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SECTION 6 - ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

If it can be performed safely, stop the discharge of product. If a substantial quantity of product is spilled inform the applicable regulatory authorities immediately. Using explosion -proof equipment, recover spilled material with a pump or vacuum truck. Otherwise use an absorbent such as vermiculite or Fullers' Earth Clay, or other appropriate absorbent to contain spill. Place contaminated material in a suitable container away from sources of ignition for appropriate disposal. Do not flush this product to streams, sewers, rivers, or other bodies of water.

SECTION 7 - HANDLING AND STORAGE**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Store in a cool, dry well ventilated area. Do not store near heat or ignition sources, or in direct sunlight. Always keep containers tightly closed to avoid contamination. Special warning: Hot organic vapors or mist can suddenly and without warning combust when mixed with air. Ignition can occur at typical elevated temperature process conditions. Any proposed use in such processes should be evaluated thoroughly to assure safe operating conditions. Do not store above 140°F (60°C).

Containers should be supported and grounded before opening. Open with non-sparking tools. If the container is warm, open slowly to release internal pressure.

Empty containers can retain product residues. Do Not use heat, sparks, open flames or other sources of ignition near empty containers. Do not use empty container for food, clothing or products for human or animal consumption or where skin contact may occur.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**HAZARDOUS COMPONENTS**

| | NIOSH | | | | ACGIH | | | |
|----------------------|------------|--------------|-------------|---------------|------------|--------------|-------------|---------------|
| | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 |
| Petroleum Distillate | 300 | | | | 300 | | 500 | |
| Heptane | 75 | 350 | 750 | | 500 | | 500 | |
| 1-Heptene | NE | | NE | | NE | | NE | |
| Octane | 75 | 350 | 385 | 1800 | 300 | | | |

PERSONAL PROTECTION:**RESPIRATORY PROTECTION:**

Avoid breathing vapor or mist. When established airborne exposure limits are surpassed (see exposure limits in this section), follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN-149. Always use a NIOSH or European Standard EN 149 **approved respirator when necessary**, for protection against organic solvent vapors. Observe the respiratory use limitations specified by these standards or the manufacturer. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator. Respirator protection programs must additionally be in compliance with published standards in 29 CFR 1010.134. Maintain airborne concentrations of product vapors below the established exposure limits (see airborne TLV data in this section). General (dilution) ventilation may be acceptable if exposures can be kept below the recommended exposure limits. However local exhaust ventilation is recommended when vapor's or mists can be released.

PROTECTIVE GLOVES: Wear appropriate impervious gloves.

EYE PROTECTION: Wear protective chemical splash goggles. An eyewash facility should be readily available when working with this product.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear a protective apron or similar protective clothing when working with this product. Discard or launder contaminated clothing.

WORK / HYGIENIC PRACTICES:

Wash contaminated goggles, faceshield and gloves. Launder contaminated clothing. Discard contaminated shoes.

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| SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES | | | |
| APPEARANCE AND ODOR Light yellow clear viscous liquid with a solvent odor. | | VAPOR PRESSURE N/A | |
| pH N/A | | SPECIFIC GRAVITY (WATER = 1) 0.7 @ 60°F | |
| BOILING POINT / BOILING RANGE 90-100°C @760mm | | SOLUBILITY IN WATER Water Insoluble | |
| FLASH POINT -16°F TCC | | VISCOSITY No Data | |
| FLAMMABLE LIMITS LEL: 1.3% in air UEL: Unknown | | VAPOR DENSITY (AIR = 1) 3.5 | |
| AUTOIGNITION TEMPERATURE N/E | | EVAPORATION RATE (WATER = 1) 3.1 | |
| SECTION 10 - STABILITY AND REACTIVITY | | | |
| STABILITY UNSTABLE: STABLE X | | CONDITIONS TO AVOID: Heat above 140°F (60°C) | |
| INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing Materials | | | |
| HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon Monoxide, Carbon Dioxide, Smoke, Soot, and Solvent Vapors. | | | |
| HAZARDOUS POLYMERIZATION Does not occur. | | CONDITIONS TO AVOID: N/A | |
| SECTION 11 - TOXICOLOGICAL INFORMATION | | | |
| Hazardous Components | CAS # EINECS # | LD50 of Ingredient (Specify Species and Route) | LC50 of Ingredient (Specify Species) |
| Petroleum Distillate | 64742-89-8 265-192-2 | Unknown | Unknown |
| Heptane | 142-82-5 205-53-8 | Unknown | Inhalation, rat: LC50 = 103 gm/m ³ /4H; Unknown |
| 1-Heptene | 25339-56-4 246-871-2 | | |
| Octane | 111-65-9 203-892-1 | | |
| SECTION 12 - ECOLOGICAL INFORMATION | | | |
| <p>For 1-Heptene: Fish: Mosquito Fish: LC50 = 49.00 mg/L; 24 Hr.; Unspecified</p> <p>For Octane: Water flea EC50 = 0.38 mg/L; 48 Hr.; Unspecified Conditions Bacteria: Phytobacterium phosphoreum: EC50 = 890 mg/L; 30 minutes; Microtox test No data available.</p> <p>For Heptane: Ecotoxicity: Fish: Goldfish: LC50 = 4.0 mg/L; 24 Hr.; Unspecified Fish: Mosquito Fish: LC50 = 4900 mg/L; 24 Hr.; Unspecified Fish: LC50 = 4900 mg/L; 24 Hr.; Unspecified No data available.</p> <p>Environmental: Photolysis or hydrolysis of n-heptane are not expected to be important in soils. The biodegradation of n-heptane may occur in soils; however, volatilization and adsorption are expected to be far more important fate processes.</p> <p>Physical: Based on a vapor pressure of 45.8 mm Hg at 25 deg C, n-heptane is expected to exist entirely in the vapor phase in ambient air. Direct photolysis of n-heptane in the atmosphere is not expected to be important.</p> <p>For Petroleum Distillate (medium aliphatic naphtha): Has the potential to bioaccumulate. No other data available.</p> | | | |

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SECTION 13 - DISPOSAL CONSIDERATIONS**WASTE DISPOSAL METHOD:**

If discarded in its original uncured form, this product exhibits the characteristics of a RCRA hazardous waste as defined under 4-CFR 261.2.1. Therefore, it must be managed (stored/treated/or disposed of etc.) at a properly permitted facility, in compliance with all federal, state, and local requirements. Contact all the appropriate government agencies for more guidance if required. Selecting from the disposal methods currently available for this product the order of selection from most preferable to least preferable should be: 1) Recycle or re-work if at all feasible. 2) Incinerate at a properly permitted facility. 3) Treat at an acceptable waste treatment facility.

SECTION 14 - TRANSPORT INFORMATIONPROPER SHIPPING NAME: Adhesives
DOT HAZARD CLASS / Pack Group: 3/II
REFERENCE: 49 CFR
UN / NA IDENTIFICATION NUMBER: UN 1133
LABEL: Flammable Liquid
HAZARD SYMBOLS:IATA HAZARD CLASS / Pack Group: 3/II HM-181
IMDG HAZARD CLASS: 3/ PG II
RID/ADR Dangerous Goods Code:
UN TDG Class / Pack Group: 3/PGII
Hazard Identification Number (HIN): Emergency Response Guide #128

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act) All ingredients listed.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act) : Pursuant to section 313 of SARA Title III , this product contains one or more toxic chemicals that are present in a concentration in excess of 1 percent (0.1% , if a listed carcinogen). = Petroleum Distillate.

313 REPORTABLE INGREDIENTS: Petroleum Distillate.

Pursuant to section 311/312 of SARA title III, the physical and health hazard categories for this product are identified below:

Fire Hazard: Yes

Sudden Release of Pressure Hazard: Yes

Reactivity Hazard: No

Immediate (Acute) Health Hazard: Yes

Delayed Chronic Health Hazard: Yes

CERCLA (USA - Comprehensive Response Compensation and Liability Act): None of the chemicals in this material have an RQ.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: Yes Listed

CPR (Canadian Controlled Products Regulations): No

IDL (Canadian Ingredient Disclosure List): Yes





DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Yes Listed

EINECS (European Inventory of Existing Commercial Chemical Substances): Ingredients Listed

WGK Water Quality Index: No Information Available.

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| RISK PHRASES: | SYMBOL(S) REQUIRED FOR EU LABEL | SAFETY PHRASES: |
|--|---|---|
| R-11 R-38 R-45 R50/53 R-65 R-67 |  +T  +F  +XN  +N | S2- Keep out of the reach of children. S9- Keep container in a well ventilated place. S16- Keep away from sources of ignition-No smoking. S29-Do not empty into drains. S33- Take precautionary measures against static discharges. S45-In case of accident or if you feel unwell, seek medical advice immediately. S53- Avoid exposure-obtain special instructions before use. S60-This material and its container must be disposed of as hazardous waste. S61- Avoid release to the environment. Refer to special instructions/Safety data sheet. S62- If swallowed do not induce vomiting: seek medical advice immediately and show this container and label. |

SECTION 16 - OTHER INFORMATION

| | | | |
|----------------------------|---|------------------|--|
| Notes & full R-Phrase text | R11- Highly Flammable. R38- Irritating to skin. R45- May cause cancer. R65- Harmful, May cause lung damage if swallowed. R67- Vapors may cause drowsiness or dizziness | | |
| HMIS HAZARD RATINGS | HEALTH: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT: | 2 3 0 H | 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME |

REVISION SUMMARY: Supersedes 03/12/2001 issue. Includes Global Harmonization (E.U.) required data.

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.