



Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Printing date 25.01.2013

Revision: 25.01.2013

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: Rubber Cement**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** Adhesive.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Yee Jee Technology Co., Ltd.
No.319, Sec. 1, Mingshan Rd.
Mingjian Township, Nantou County 55146, Taiwan (R.O.C.)
Phone: +886 (49)-2738898
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400, H410.



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

R45-46: May cause cancer. May cause heritable genetic damage.

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 Xi; Irritant

R38: Irritating to skin.

 F+; Highly flammable

R11: Highly flammable.

 N; Dangerous for the environment

R50: Very toxic to aquatic organisms.

R67: Vapours may cause drowsiness and dizziness.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Solvent naphtha (petroleum), light aliph.

· **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H410.

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H340 May cause genetic defects.

H350 May cause cancer.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P281 Use personal protective equipment as required.

P233 Keep container tightly closed.

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P332+P313 If skin irritation occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P403+P235 Store in a well-ventilated place. Keep cool.

- **Additional information:** N/A

- **Hazard description:**

- **WHMIS-symbols:**

B2 - Flammable liquid

D2A - Very toxic material causing other toxic effects



- **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *2

Fire = 3

Reactivity = 0

* - Indicates a long term health hazard from repeated or prolonged exposures.

- **HMIS Long Term Health Hazard Substances**

64742-89-8	Solvent naphtha (petroleum), light aliph.
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- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 64742-89-8

EINECS: 265-192-2

Index number: 649-267-00-0

Solvent naphtha (petroleum), light aliph.

>50%

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		(Contd. of page 3)
CAS: 142-82-5 EINECS: 205-563-8 Index number: 601-008-00-2	heptane ☒ Xn R65; ☒ Xi R38; 🔥 F R11; ☒ N R50/53 R67 ----- 🔥 Flam. Liq. 2, H225 ☠️ Asp. Tox. 1, H304 🐟 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠️ Skin Irrit. 2, H315; STOT SE 3, H336	10-25%
CAS: 592-76-7 EINECS: 209-767-8	hept-1-ene 🔥 F R11 ----- 🔥 Flam. Liq. 2, H225	<10%
CAS: 111-65-9 EINECS: 203-892-1 Index number: 601-009-00-8	octane ☒ Xn R65; ☒ Xi R38; 🔥 F R11; ☒ N R50/53 R67 ----- 🔥 Flam. Liq. 2, H225 ☠️ Asp. Tox. 1, H304 🐟 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠️ Skin Irrit. 2, H315; STOT SE 3, H336	<10%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· 4.1 Description of first aid measures

· **General information:** Take affected persons out into the fresh air.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· 4.2 Most important symptoms and effects, both acute and delayed

Dizziness

Headache

Nausea

· **Hazards**

Danger of impaired breathing.

Danger of convulsion.

Condition may deteriorate with alcohol consumption.

· 4.3 Indication of any immediate medical attention and special treatment needed

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary oedema.

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Treat skin and mucous membrane with antihistamine and corticoid preparations.

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5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
 - Foam
 - Alcohol resistant foam
 - Gaseous extinguishing agents
 - Carbon dioxide
 - Fire-extinguishing powder
 - ABC powder
- **For safety reasons unsuitable extinguishing agents:**
 - Water spray
 - Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
 - In case of fire, the following can be released:
 - Carbon monoxide (CO)
 - Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information** No further relevant information available.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Use respiratory protective device against the effects of fumes/dust/aerosol.
 - Wear protective equipment. Keep unprotected persons away.
 - Ensure adequate ventilation
 - Keep away from ignition sources.
 - Protect from heat.
- **6.2 Environmental precautions:**
 - Inform respective authorities in case of seepage into water course or sewage system.
 - Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose contaminated material as waste according to item 13.
 - Clean the affected area carefully; suitable cleaners are:
 - Organic solvent
- **6.4 Reference to other sections**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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7 Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
 - Flammable gas-air mixtures may form in empty receptacles.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
 - Store in a cool location.
 - Provide ventilation for receptacles.
 - Avoid storage near extreme heat, ignition sources or open flame.
 - **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Store away from oxidizing agents.
 - **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed receptacles.
 - Keep container tightly sealed.
 - Store receptacle in a well ventilated area.
- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

Ingredients with limit values that require monitoring at the workplace:

142-82-5 heptane

IOELV (EU)	2085 mg/m ³ , 500 ppm
PEL (USA)	2000 mg/m ³ , 500 ppm
REL (USA)	Short-term value: C 1800* mg/m ³ , C 440* ppm Long-term value: 350 mg/m ³ , 85 ppm *15-min
TLV (USA)	Short-term value: 2050 mg/m ³ , 500 ppm Long-term value: 1640 mg/m ³ , 400 ppm
EL (Canada)	Short-term value: 500 ppm Long-term value: 400 ppm
EV (Canada)	Short-term value: 2,045 mg/m ³ , 500 ppm Long-term value: 1,635 mg/m ³ , 400 ppm

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111-65-9 octane

PEL (USA)	2350 mg/m ³ , 500 ppm n-Octane only
REL (USA)	Short-term value: C 1800* mg/m ³ , C 385* ppm Long-term value: 350 mg/m ³ , 75 ppm *15 min-; n-Octane only
TLV (USA)	1401 mg/m ³ , 300 ppm
EL (Canada)	300 ppm
EV (Canada)	Short-term value: 1,750 mg/m ³ , 375 ppm Long-term value: 1,400 mg/m ³ , 300 ppm

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

- **Respiratory protection:**

Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
Use suitable respiratory protective device when high concentrations are present.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- **Eye protection:**
Contact lenses should not be worn.



Safety glasses

- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment**
No further relevant information available.
- **Risk management measures**
See Section 7 for additional information.
No further relevant information available.

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Viscous
Colour:	Light yellow
· Odour:	Solvent-like
· Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	194 °F / 90 °C

· Flash point: 16 °F / -9 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 410 °F / 210 °C

· Decomposition temperature: Not determined.

· Self-igniting: Product is not self-igniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower:	1,1 Vol %
Upper:	6,7 Vol %

· Vapour pressure at 20 °C: 160 hPa

· Density at 20 °C: 0,7 g/cm³

· Relative density: Not determined.

· Vapour density: Not determined.

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- | | |
|---|--|
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| · Dynamic: | Not determined. |
| · Kinematic: | Not determined. |
| · 9.2 Other information | No further relevant information available. |

10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Flammable.
Forms flammable gases/fumes.
Reacts with oxidizing agents.
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **10.4 Conditions to avoid**
Keep ignition sources away - Do not smoke.
Store away from oxidizing agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Irritant gases/vapours
Hydrocarbons
Carbon monoxide and carbon dioxide

11 Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity:**
- | | | |
|--|----------|-------------------------------|
| · LD/LC50 values relevant for classification: | | |
| 142-82-5 heptane | | |
| Oral | LD50 | > 5000 mg/kg (rat) (Estimate) |
| Inhalative | LC50/4 h | 103 mg/l (rat) |
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
 - **Sensitization:** No sensitizing effects known.
 - **Subacute to chronic toxicity:** Vapours have narcotic effect.

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- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

- **Repeated dose toxicity:** May cause damage to organs through prolonged or repeated exposure .

12 Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:** The material is harmful to the environment.

- **12.2 Persistence and degradability** The product is partly biodegradable. Significant residuals remain.

- **12.3 Bioaccumulative potential**

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:**

Very toxic for fish

The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

- **Additional ecological information:**

- **General notes:**

This statement was deduced from products with a similar structure or composition.

This statement was deduced from the properties of the single components.

The product may not be released into the environment without control.

Due to the consistence and the low watersolubility of the product a bioavailability is not probable.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Water Hazard Class (Self-classification) in the concentrate.

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

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Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Solvent naphtha

14 Transport information

· 14.1 UN-Number

· DOT, ADR, IMDG, IATA UN1133

· 14.2 UN proper shipping name

· DOT ADHESIVES, Flammable Liquid
 · ADR 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS, Flammable Liquid
 · IMDG ADHESIVES (HEPTANES, OCTANES), MARINE POLLUTANT, Flammable liquid.
 · IATA ADHESIVES, Flammable

· 14.3 Transport hazard class(es)

· DOT



· Class 3 Flammable liquids.
 · Label 3

· ADR



· Class 3 (F1) Flammable liquids.
 · Label 3

· IMDG



· Class 3 Flammable liquids.
 · Label 3

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· IATA



· Class 3 Flammable liquids.
· Label 3

· 14.4 Packing group
· DOT, ADR, IMDG, IATA II

· 14.5 Environmental hazards: Product contains environmentally hazardous substances: heptane, octane
· Marine pollutant: Yes
Symbol (fish and tree)
· Special marking (ADR): Symbol (fish and tree)

· 14.6 Special precautions for user Warning: Flammable liquids.
· Danger code (Kemler): 33
· EMS Number: F-E,S-D

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR
· Limited quantities (LQ) 5L
· Transport category 2
· Tunnel restriction code D/E

· UN "Model Regulation": UN1133, ADHESIVES, ENVIRONMENTALLY HAZARDOUS, 3, II

15 Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
· United States (USA)
· SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

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- **Proposition 65 (California):**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

142-82-5 | heptane

D

- **IARC (International Agency for Research on Cancer)**

64742-89-8 | Solvent naphtha (petroleum), light aliph.

1B

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Canada**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

142-82-5 | heptane

111-65-9 | octane

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H340 May cause genetic defects.

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H350 May cause cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
R11 Highly flammable.
R38 Irritating to skin.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Sources

SDS Prepared by:
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