

Material Safety Data Sheet

CNSL

Section 1: Product And Company Identification

Product Name : Cashew Nut Shell Liquid
Company Identification : Tradeasia International Pte Ltd
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
Fax: +65-6225 6286
Email: contact@chemtradeasia.com

Section 2: Composition/Information On Ingredients

| Name | CAS # | % |
|-------------------------|-----------|-----|
| Cashew Nut Shell Liquid | 8007-24-7 | 100 |

Section 3: Hazards Identification

Emergency Overview : Cashew Nut Shell Liquid is a skin sensitizer in susceptible individuals.

Potential Health Effects :

Eye Contact : May cause eye irritation. Avoid eye and skin contact.

Skin Contact : May be irritating to the skin. May cause a skin rash with susceptible individuals.

Inhalation : The inhalation hazard potential has not been determined. Avoid inhalation of vapors.

Ingestion : Low toxicity. LD50 for acute oral toxicity is likely to be greater than 1000 mg/kg bw.

Chronic Effect : May cause skin sensitization in susceptible individuals.

Carcinogenicity : No indication of carcinogenicity with genotoxicity assays.

Target Organs : Skin.

Section 4: First Aid Measures

- Eye Contact** : IMMEDIATELY flush with plenty of water. Continue for 15 minutes. Call a physician.
- Skin Contact** : Wash affected area with soap and water.
- Inhalation** : Remove to fresh air. Call a physician.
- Ingestion** : Give 2 glasses of water. IMMEDIATELY call a Physician or Poison Control.

Section 5: Fire Fighting Measures

Flash Point (Method Used) : > 500 F (Pensky-Martens closed cup).

Flammable Limits : n.a.

Extinguishing Media : Water, Foam, CO₂, Dry Chemical.

Special Fire Fighting : None known.

Procedures

Unusual Fire and : None known.

Explosion Hazard

Section 6: Accidental Release Measures

Clean-Up : Observe precautions from other sections. Cover with absorbent material. Collect spilled material. Clean up residue with appropriate solvent. Place in a U.S. DOT approved container and seal.

Containment : Cover with absorbent material.

Section 7: Handling And Storage

Precautions in Handling and Storage : Avoid prolonged or repeated skin contact. Remove contaminated clothing and laundry before re-use. Avoid eye contact. Avoid prolonged breathing of vapors/fumes. Use in a well-ventilated area.

Special Comments : N.A.

Section 8: Exposure Controls And Personal Protection

Eye Protection : Safety glasses or goggles.

Respiratory Protection : Use organic respirator in case of emergency.

Skin Protection : Rubber gloves, protective clothing.

Engineering Control : Local exhaust recommended.

Section 9: Physical And Chemical Properties

| | | |
|---|---|--|
| Physical Appearance | : | Dark brown colored liquid. |
| Odor | : | Oil-like odor. |
| Physical State | : | Liquid. Viscosity @ 20°C = 180 mPa/s, viscosity @ 49°C = 49 mPa/s. |
| Engineering Control | : | Local exhaust recommended. |
| pH | : | 7 - 11.5 |
| Vapor Pressure (mmHg) | : | 5.0 x 10 ⁻⁵ Pa at 25°C |
| Vapor Density (Air=1) | : | N.A. |
| Freezing Point | : | N.A. |
| Melting Point | : | less than -50°C |
| Boiling Point | : | N.A. (polymerizes/decomposes at high temperature) |
| Solubility in Water | : | 3.04 x 10 ⁻⁴ g/L of solution at 20°C |
| Specific Gravity (H ₂ O=1) | : | ~1 |
| Weight per Volume | : | ~ 8.3 pounds / gallon |
| Percent Volatile by Weight | : | ~ 1 %, (2 gm/2hr /105°C) |

Section 10: Stability And Reactivity

| | | |
|---------------------------|---|----------------|
| Incompatibility | : | Not available |
| Hazardous | : | Not available |
| Decomposition | : | |
| Condition to Avoid | : | Not available |
| Hazardous | : | Will not occur |
| Polymerization | : | |
| Stability | : | Stable |

Section 11: Toxicological Information

- Eye Effect** : N.A.
- Skin Effect** : Guinea pig maximisation test (OECD 406). The test substance produced a 70% (14/20) sensitisation rate and was classified as a strong sensitiser.
- Oral Effect** : The LD50 for acute oral toxicity is likely to be greater than 1000 mg/kg body weight.
- Inhalation Effect** : N.A.
- Other** : The No Observable Effect Level?(NOEL) for systemic toxicity is 150 mg/kg/day. The NOEL for reproductive and developmental toxicity was considered to be 1000 mg/kg/day. It was found negative in in-vitro genotoxicity.

Section 12: Ecological Information

- Ecological Information** : Biodegradable. (96% degradation after 28 days, OECD Method 301D).
- Environmental Fate** : Based on Epiwin V3.12 Level III Fugacity Model estimations, the major components of cashew nutshell liquid will distribute mainly to soil (37.3 - 77.7%) if released to the air compartment, almost exclusively to sediment (94.8 - 97.3%) if released to water, exclusively to soil if released to soil and mainly to sediment (66.9 -69.9%) if released simultaneously to all air, soil and water compartments.

Section 13: Disposal Considerations

- Waste Disposal** : Incinerate in an industrial or commercial facility.
- Disposal alternative** : Dispose of completely absorbed waste product in a a facility permitted to accept chemical wastes. Since regulations vary, consult applicable regulations or authorities before disposal.
- U.S. EPA hazardous waste No.: None

Section 14: Transport Information

DOT Hazard Class : Not available
DOT Packaging Group : Not available
DOT Label/Placard : Not available
DOT Shipping Name : Cashew Nut Shell Liquid
UN/NA Number : Not available

Section 15: Regulatory Information

SARA 313 Information : N.A.
Federal Regulations : U.S. TSCA registered.
State Regulations : N.A.

Section 16 : Other Information

The information on this data sheet represents our current data and best opinion as to the proper use and handling of this product under normal conditions. Any use of this product which is not in conformance with this data sheet or which involves using the product in combination with other product or any process is the responsibility of the user.