

MATERIAL SAFETY DATA SHEET

Section I. Chemical Product and Company Identification

Product name: TUNG OIL
Product grade: EXPORT GRADE
CAS Number: 8001-20-5
Synonyms: China wood oil
Formula: C₅₇H₉₂O₆ mainly
Molecular weight: 873.3
Material Usage: alkyd resin, raw lacquer, varnish, paint, electronic industry, etc.
Supplier: Summit Trade Pte Ltd
9/F Baiyun Riverscape Tower, 5 Xijiang 2nd Road, Wuzhou, Guangxi, China (543001)
Emergency Call : +86 7742048481
Last updated: June 08

Section II. Composition and Information on Ingredients

glycerol ester of tung oil acid mainly.

Section III. Hazards Identification

Routes of Entry:
Inhalation: No Skin: No Ingestion: No
Reports of Carcinogenicity:
NTP: No IARC: No OSHA: No
Health Hazards Acute and Chronic: None.
Explanation of Carcinogenicity: Not Relevant

Section IV. First Aid Measures

Ingestion: call MD immediately.
Inhalation: remove to fresh air.
Eyes: immediately flush with potable water for a minimum of 15 minutes, seek assistance from MD.
Skin: flush w/copious amounts of water. Call MD.

Section V. Fire and Explosion Data

Flash point: 552 (F) 289 (C)
Extinguishing media: foam or Co₂.
Fire fighting procedures: use NIOSH/MSHA approved SCBA & full protective equipment.
Unusual fire/explosion hazard: possible danger or spontaneous combustion if in contact with combustible absorbents such as sawdust.

Section VI. Accidental Release Measures

Spill release procedures: no hazard, recover as much as possible. absorb residue w/clay or other mineral.

Section VII. Handling and Storage

Handling and storage precautions: store cool in clean tanks or drums. Keep containers tightly closed, Isolate from heat, electrical equipment, sparks and open flame. As with all vegetable oils, rags, steel wool or waste soaked with oil, may spontaneously catch fire if improperly discarded. Immediately after use, place the oil soaked material in a sealed water-filled metal container.

Section VIII. Exposure Controls/Personal Protection

NIOSH/MSHA approved respirator appropriate for exposure of concern.
Protective gloves: impervious gloves.
Eye protection: ANSI approved chem workers goggles .

Section IX. Physical and Chemical Properties

Appearance: transparent or slightly turbid
Color: Not darker than a freshly prepared solution containing 0.4gm potassium dichromate in 100ml of sulphuric acid (s.g. 1.84).
Specific gravity (20 deg C/4 deg C): 0.9360 - 0.9395
Refractive index (20 deg C): 1.517 - 1.522
Iodine value: 163 - 173
Saponification value: 190 - 195
Moisture and impurities: 0.3% max.
Free fatty acid (FFA): 4% max.
Worstall's heat test: 7.5 minutes max.
Beta tung oil test: negative (no crystalline precipitate)

Section X. Stability and Reactivity Data

Stability indicator/materials to avoid: yes
Stability condition to avoid: electrical equipment, extreme heat, sparks, open flames & other sources of ignition.
Hazardous decomposition products: Co, Co₂, smoke, oxides of nitrogen.

Section XI. Toxicological Information

Respiratory protection: not needed. NIOSH/MSHA approved respirator appropriate for exposure of concern.
Ventilation: not needed.
Protective gloves: impervious gloves.
Eye protection: ANSI approved chem workers goggles.
Other protective equipment: not needed.
BP: gels when heated. S

Section XII. Ecological Information

No available data.

Section XIII. Disposal Considerations

Waste disposal methods: dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local regulations.

Section XIV. Transport Information

Non-hazardous for air, sea and road freight.

Section XV. Other Regulatory Information

Unspecified.

Section XVI. Other Information

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