



MATERIAL SAFETY DATA SHEET

Guizhou Xinli Forestry & Chemicals Co.,

5/F, WaiMao Building 1 YanWu Road Guiyang China

50001 Guiyang China

Telephone: 86 851 6866883 Fax: 86 851 6813915

E-mail: gysanx@public.gz.cn Website: www.guizhouxinli.com

Product Name: Tung Oil / China Wood Oil

Identification of the supplier: **Guizhou Xinli Forestry & Chemicals Co.,**

Address 5/F, WaiMao Building 1 YanWu Road Guiyang China

Postal code / place 550001 Guiyang China

Telephone 86 851 6866883

Fax 86 851 6813915

PRODUCT IDENTIFICATION

CAS NO. 8001-20-5

EINECS NO. 232-272-3

FORMULA Mixture

TOXICITY Harmless, no side-effects encountered, but is inedible

SYNONYMS China Wood Oil;

Emergency Information

Use of the substance/preparation

For the manufacturing of binders for the paint-industry, with the properties for faster drying and higher water-and alkali resistance. Usage in the printing-ink industry

Composition / Information on the ingredients

Description: at high temperatures polymerized tung oil.

A vegetable oil, Triglycerid-Ester with following fatty acid composition

Myristin acid	C 14: 0	traces
Palmitic acid	C 16: 0	2 – 4 %
Stearic acid	C 18: 0	2 – 4 %
Oleic acid	C 18: 1	8 – 12 %
Linolenic acid	C 18: 2	12 - 16 %
Elaeostearic acid	C 18: 3	78 – 82 %

Identification letter and hazard symbols of the product:

R-Phrases 43

S-Phrases 24 - 37

Possible hazards

Skincontact can cause irritation.

First aid measures

Eye contact Flush with plenty of water, contact for medical advice.

Skin contact Wash with water and soap.

Inhalation: Concerns only the HOT product. Move the victim to a ventilated area. Not applicable for the Tungoil at room temperature as there is no sensible vapour escape

Ingestion : Drink water or milk and consult for medical advice.

Fire fighting measures

Tungoil is claimed as non flammable, but whilst burning, heat and smoke arise..

The tungoil will react exotherm with gelling effect by auto-polymerisation. This is caused by the high content of conjugated Elaeostearic acid, where the tungoil strong reacts on temperatures above 150°C.

Suitable extinguishing media: Foam, Dry powder, Carbon dioxide.

NOT TO BE USED: Water. May spit and spread the fire. The water might boil explosively and hurt people.

Special exposure hazards: avoid inhalation of vapour and smoke, this can irritate nose and eyes.

Smoke can cause watering eyes.

Equipment for fire fighting: usual equipment necessary, at heavy fire: oxygen mask and equipment required. Accidental release measures

Accidental release measures

Tungoil is relativ harmless it is a drying oil which, if left over for a few days, will form a hard film.

After spillage / leakage: evacuation is not necessary. Absorb with absorbant materials. Clean the floor with hot water and soap or use an alkalic cleaner. Wear slip-free shoes.

Handling and storage

Respect the normal precautions for handling liquid chemicals. Store the closed drums cool and dry.

For bulk lots : keep the temperature as low as possible. Prolonged heating of for example 50-60°C.

Could cause darkening of the tungoil.

Avoid contact with cupper or cupper-alloy, this could cause change of color of the material due to the reaction of the free fatty acids and the metal

Exposure controls / Personal protection

Respect the normal precautions for liquid chemicals. Special personal protection equipment is not required.

Nevertheless, body protection measures and working place location are to choose depending on the concentration and amount of the to use materials as hot oils have a high heatcontent and splashes could be flammable.

Hand protection: wear non-absorbant gloves when handling.

Eye protection: wear safety goggles when handling hot oil.

Skin protection: wear normal industrial clothing and wash regularly.

Physical and chemical properties

Appearance	Clear, Yellow
Form	Liquid
Colour	Bright to Dark yellow
Smell	Nutty fatty
Boilingpoint / boiling range	N/A
Melting point / melting range	N/A
Flashpoint	Over 200°C.
Flammability	Combustible
Auto ignition	N/A
Lower Explosionlimit	N/A
Upper Explosionslimit	N/A
Vapour pressure at 20°C.	N/A
Relative Density at 15,5°C.	Ca. 0,942
Solubility in Water	Insoluble
Solubility in oil	Soluble
Viscosity at 25°C.	Ca. 1,8 P

Stability and reactivity

In general Tungoil is under normal conditions stabil. Thermic decomposition none, at normal tempeature over 250°C. decompositionpolymerized Tungoil, can with a complex mixture of decomposing products, mainly Aldehyde, Ketone and Lactone, generate Acrolein.

Hazardous reaction : not known

Toxicological information

Oral: harmless, no side-effects encoutered, but is inedible.

Skin: in general the oil is not considereed as toxic but at sensible skin irritation could occur

Skin-effect normaly none, with prolonged contact with sensible skin, irritation and redness could occur.

Inhalation non applicable

Eye. –effect: irritating, wash out the eyes immediately with clear water.

Others : non applicable

Ecological information

Biodegardability: The product is biodegradable

Aquatic toxicity: No data available, but not to exclude the product is toxic

The possible danger exists that the floating, oily film cuts off the oxygen supply.

Bacterial toxicity: No data available be but not to exclude the product is toxic.

Disposal considertions

The product should be treated according thhe local regulations.

Transport information

Following our present state of knowledge, there are no restrictionS

Regulatory information

Characterisation as to EC regulations

Symbols	Xi	irritating
R-phrases	43	possible sensitisation by skin contact
S-phrases	24 –37	avoid skin contact, wear suitable gloves.
Water pollution classification	according to the topical German Vw Vws (Kenn-Nr. 760)	

Other information

Tungoil standoil does not contain chemical admixture, animal experiments are not carried out.

Information in this document is given in good faith upon our present knowledge, to describe the safety regulations of the product.

They do not certify the properties of the described product.