

Material Safety Data Sheet WD-13

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name On Label: N-Octyltriethoxysilane, 97%

Product Number: WD-13

Manufacturer / Supplier: WD SILICONE Co., Ltd.

Post / Physical Address: Wuhan University, Hubei, China

Emergency Telephone Number: +86-27-68756775 or +86-27-87215023

2. COMPOSITION AND INFORMATION ON COMPONENTS

Name : N-Octyltriethoxysilane, 97%

Minor Impurities : Not determined

CAS NO. : 2943-75-1

EC NO.: 220-941-2

Hazard Symbols: Xi

Rish Phrases: 36/37/38

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW :

Moisture sensitive.

Target Organs: None.

Potential Health Effects

Eye: Contact with eyes may cause immediate or delayed severe eye irritation.

Skin: May cause irritation or contact dermatitis which may be delayed several hours.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract.

Chronic: Prolonged or repeated skin contact may cause defatting and dermatitis.

4. FIRST AID MEASURES

● Inhalation

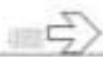
Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

● Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes, Get medical attention, preferably from an ophthalmologist.

● Skin Contact

Flush skin with plenty of soap and water for at least 15 minutes. Consult a doctor in the event of permanent skin irritation.



- **Ingestion**

Never give fluids or induce vomiting if patient is unconscious or having convulsions.

Get medical attention.

- **Notes to Physician**

Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

- **General Information**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Runoff from fire control or dilution water may cause pollution.

- **Extinguishing Medium**

Use foam, water spray, dry chemical, or carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

- **General Information**

Use proper personal protective equipment as indicated in section 8.

- **Personal Protection**

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

- **Environmental Protection**

Do not allow entrance in soil, stretches of water, drainage systems.

- **Methods for Cleaning Up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Fill into marked, sealable containers.

7. HANDLING AND STORAGE

- **Handling**

Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Do not allow contact with water. Wash clothing before reuse. Keep from contact with moist air and steam.

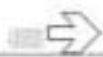
- **Storage**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **Engineering Controls**

Facilities storing or utilizing this material should be equipped with an eyewash facility and



safety shower.

- **Respirators**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Colorless transparent liquid

Odor: Alcohol-like

Boiling Point: 98 deg C

Flash Point: 100 deg C

Molecular Weight: 276.3077

Molecular Formula : $\text{CH}_3(\text{CH}_2)_7\text{Si}(\text{OCH}_2\text{CH}_3)_3$

Density : 0.880±0.005

Solubility In Water: Insoluble, reacts

Percent Volatiles: Not determined

10. STABILITY AND REACTIVITY

- **Chemical Stability**

Stable under normal temperatures and pressures.

- **Incompatibilities With Other materials**

Moist air or water

- **Hazardous Decomposition Products**

Ethanol in case of hydrolysis.

- **Hazardous Polymerization**

Has not been reported.

11. TOXICOLOGICAL INFORMATION

RTECS# : CAS# 2943-75-1: VV6695500

LD50/LC50: CAS# 2943-75-1: Oral, rat: LD50 = 10060 ul/kg; Skin, rabbit: LD50 = 5910 ul/kg.

Carcinogenicity: n-Octyltriethoxysilane – Not listed by ACGIH, IARC, or NTP.

Other: See actual entry in RTECS for complete information.

12. ECOLOGICAL EFFECTS

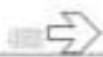
General

Take care to prevent chemicals from entering the ground, water courses or drainage systems.

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

Not listed as a material banned from land disposal according to RCRA.



14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

European/International Regulations: European Labeling in Accordance with EC Directives.

Symbol(s): Xi

Risk Phrase(s):

R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety Phrase(s):

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice..

S 37/39: Wear suitable gloves and eye/face protection.

16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.

Date of Last Review: 2010/9/20