



HITO CHEMICAL

Material Safety Data Sheet

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: H-312
Chemical name: Dodecyltriethoxysilane
MANUFACTURED BY: JIANGXI HITO CHEMICAL CO.,LTD
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SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

<u>CAS NO.</u>	<u>Component Name</u>
18536-91-9	Dodecyltriethoxysilane

SECTION 3 – HAZARDS IDENTIFICATION

Eye	Direct contact may cause temporary redness and discomfort.
Skin	No significant irritation expected from a single short-term exposure.
Inhalation	No significant effects expected from a single short-term exposure.
Oral	Low ingestion hazard in normal use

SECTION 4 - FIRST AID MEASURES

Eye	Immediately flush with water.
Skin	No first aid should be needed.
Inhalation	No first aid should be needed.
Oral	No first aid should be needed.
Comments	Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point	100 °C
Autoignition temperture	Not determined.
Flammability limits in air	Not determined.
Extinguishing media	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide(CO ₂), dry chemical or water spray. Water can

be used to cool fire exposed containers.

Fire Fighting Measures

Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual fire hazards

None.

Hazardous decomposition products

Silicon dioxide. Carbon oxides and traces of incompletely burned carbon compounds.
Formaldehyde. Hydrogen.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Containment/Clean up

Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Section 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Recovered material should be stored in a vented container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and materials and items employed in the cleanup of releases.

SECTION 7 - HANDLING AND STORAGE

Use with adequate ventilation. Avoid eye contact.

Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks and flame. Product evolves minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage. Do not store in glass containers which may shatter due to pressure build up. Clogged container vents may increase pressure build up. Keep container closed and store away from water or moisture.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Component Exposure Limits There are no components with workplace exposure limits.

Personal Protective Equipment

Eyes Use proper protection-safety glasses as a minimum.

Skin Washing at mealtime and end of shift is adequate.

Suitable gloves No special protection needed.

Inhalation No respiratory protection should be needed.

Suitable respirator None should be needed.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical form Liquid

Color Colorless to slightly yellow transparent liquid

Specific gravity at 25°C 0.88

Refractive index at 25°C n_{20/D} 1.417(lit.)

Freezing/Melting point Not determined.

Boiling point 84-85 °C/0.5 mm Hg(lit.)

Chemical Formula: C₁₄H₃₂O₃Si

EC Number (EINECS): 220-941-2

Note: The above information is not intended for use in preparing product specifications.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability Stable.

Conditions to Avoid None.

Materials to Avoid Oxidizing material can cause a reaction. Water, alcohols, acidic or basic materials, and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in air.

Hazardous Polymerization Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

No known applicable information

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicological information No data at this time.

Chemical fate information No data at this time

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations

SECTION 14 - TRANSPORT INFORMATION

DOT Classification:

This product is not regulated by DOT.

Freight description road: OIL, O/T PETROLEUM, LUBRICATING, NOIBN

IMDG Classification: This product is not regulated by IMDG.

SECTION 15 - REGULATORY INFORMATION

Chemical name	CAS#	New Jersey TS Number
Dodecyltriethoxysilane	18536-91-9	
EPA Hazard Categories (SARA 311, 312): Immediate Health Hazard, Delayed Health Hazard		

SECTION 16 - ADDITIONAL INFORMATION

RECOMMENDED USES AND RESTRICTIONS

Please consult the product and/or application information bulletins for this product.

HMIS RATING

Health: 2 Flammability: 4 Reactivity: 1 PPI: X

LEGEND

STP Standard temperature and pressure

W/W Weight/Weight

0 (HMIS) Minimal hazard

1 (HMIS) Slight hazard

2 (HMIS) Moderate hazard

3 (HMIS) Serious hazard

4 (HMIS) Severe hazard

X (HMIS) Personal protection rating to be supplied by user depending on use conditions

The opinions expressed herein are those of qualified experts within our company. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of our company ,it is the user's obligation to determine the conditions of safe use of the products.