



# HITO CHEMICAL

## Material Safety Data Sheet

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** H-245 Sbstrate wetting agent  
**Chemical name:** H-245 Sbstrate wetting agent  
**MANUFACTURED BY:** JIANGXI HITO CHEMICAL CO.,LTD  
**NO 6,TIANHONG ROAD,XINGHUO INDUSTRY ZONE,  
JIUJIANG CITY, JIANGXI PROVINCE,CHINA**  
**POST CODE:** 330319  
**Emergency telephone number:** +86-792-3170318

### SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration [%]
Polyether Modified Trisiloxane	(CASRN Proprietary)	

### SECTION 3 – HAZARDS IDENTIFICATION

#### APPEARANCE

**Physical state** Liquid

**Color** Straw-colored

**Odor** Moderate polyether

#### POTENTIAL HEALTH EFFECTS

##### Swallowing

###### Acute effects

No evidence of harmful effects from available information.

###### Effects of repeated overexposure

Ingestion may cause:

- injury to the liver
- injury to the thyroid
- injury to the kidney

##### Skin absorption

###### Acute effects

No evidence of harmful effects from available information.

###### Effects of repeated overexposure

May cause the following effects:

- skin irritation

##### Inhalation

###### Acute effects

Harmful effects are not expected from static vapor at ambient temperature. Inhalation of an aerosol of the neat material within a confined space could result in respiratory distress and eye injury.

**Effects of repeated overexposure**

An aerosol of the neat liquid may cause:

- damage to respiratory tract
- injury to the eyes
- injury to the nasal cavity
- injury to the bloodforming system

**Skin contact****Acute effects**

Brief contact is not expected to produce irritation.

Prolonged contact may result in:

- minor irritation
- transient local redness
- swelling

**Eye contact****Acute effects**

Liquid splashed into the eye causes discomfort.

Causes the following effects:

- pain
- excess blinking
- tear production
- excess redness of the conjunctivae
- swelling of the conjunctivae
- mild corneal injury

**SECTION 4 - FIRST AID MEASURES****Swallowing**

No emergency care anticipated..

**Skin**

Wash skin with soap and water.

**Inhalation**

Remove to fresh air if aerosol spray is inhaled. If breathing is difficult, administer oxygen. Obtain medical attention immediately.

**Eye contact**

Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention.

**Notes to physician**

Severe eye irritant. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

**SECTION 5 - FIRE FIGHTING MEASURES**

Flash point : 246 °F

Autoignition temperature : 500.00 °F

Suitable extinguishing : foam, carbon dioxide, dry powder, water spray.

media

Extinguishing media which : not applicable  
must not be used for safety  
reasons

Products in case of fire : In the event of fire the following can be released:

- Carbon monoxide, carbon dioxide, silicon dioxide

Further information : Collect contaminated firefighting water separately, must not be discharged into the drains.

Special protective  
equipment for fire-fighters

: As in any fire, wear self-contained breathing apparatus  
pressure-demand, (MSHA/NIOSH approved or equivalent) and  
full protective gear.

Hazardous decomposition  
products

: None with proper storage and handling.

OSHA flammable class : Combustible Liquid, Class IIIB

Flash point : 246 °F

Autoignition temperature : 500.00 °F

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Hazardous decomposition  
products

: None with proper storage and handling.

OSHA flammable class : Combustible Liquid, Class IIIB

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Methods for cleaning up / :

Small spills :

taking up

Control spill with adsorbant pads or booms, if necessary.

Apply granular or loose sorbent to spill. When adsorbed, sweep or otherwise collect and dispose of properly.

Release Notes :

US regulations require reporting spills of this material that could reach any surface waters

In case of accident or road spill notify :

Telephone:

## **SECTION 7 - HANDLING AND STORAGE**

General Procedures Handling

Advice on safe handling :

formation of aerosols or vapors during processing and application should be prevented.

Wear respiratory protection when spraying.

Advice on protection : Take precautionary measures against electrostatic loading, against fire and explosion

Storage

Requirements for storage

areas and containers

: Keep only in original container.

Further information : Keep container tightly closed

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

### Personal protective equipment

General protective : Avoid contact with eyes and skin  
measures Do not inhale aerosols

### Hygiene measures :

No smoking, eating or drinking allowed when using this  
product. Wash hands before breaks and at end of work shift.  
No other precautions required.

### Respiratory protection :

In case of vapors/aerosols: Use respiratory protective  
equipment, cartridge for organic gases and vapors.

### Hand protection :

gloves made of nitril (NBR)  
gloves made of butyl

### Eye protection :

Safety goggles and/or face shield is recommended for use.

### Protective clothing :

impermeable protective clothing  
a protective ointment is recommended.

### Engineering controls :

Good general (mechanical) ventilation should be sufficient to  
control airborne levels.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form : Liquid

Colour : clear

Odour : mild

State of aggregation : Liquid

Melting point :

not measured

Boiling point :

> 482 °F

Vapour pressure : not measured

Density : approx. 1.04 g/cm<sup>3</sup>  
at 68.00 °F  
Weight per volume : 8.66 Lb/Gal  
Water solubility : partly soluble  
pH : not measured  
Viscosity, dynamic : 20 - 50 mPa.s  
at 25 °C  
Volatile organic compound : 493.16 g/l  
4.11 Lb/Gal  
volatile in water: 0.1 %  
percent non-volatile: 52.45 %

## **SECTION 10 - STABILITY AND REACTIVITY**

Conditions to avoid : None with proper storing and handling.  
Thermal decomposition : Not measured  
Hazardous reactions : No hazardous reactions with proper storage and handling.  
Hazardous polymerisation : No  
Stability : Yes  
Hazardous decomposition : None with proper storage and handling.  
products

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

Acute oral toxicity :  
LD50 Species: rat  
Dose: 3,200 mg/kg

Acute inhalation toxicity :  
LC50 aero. Species: rat  
Dose: 1.08 mg/l  
Exposure time: 4 h  
Method: OECD 403  
Source: Untersuchungsbericht/Evonik Goldschmidt GmbH

Acute dermal toxicity :  
LD50 Species: rabbit  
Dose: 1,550 mg/kg

Skin irritation :  
Species: rabbit  
slight irritant effect - does not require labelling

Eye irritation :

Species: rabbit

strong irritant

Sensitization :

Species: Guinea pig

non-sensitizing

Note :

Harmful by inhalation and in contact with skin.

Irritates eyes and skin

The toxicological data refer to the undiluted 100 % product.

Due to the composition of the product it cannot be excluded:

Risk of serious damage to eyes

## **SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity effects

Toxicity to fish :

LC50 Species: rainbow trout

Dose: 2.1 mg/l

Toxicity to daphnia :

EC50 Species: Daphnia magna

Dose: 1.1 mg/l

Toxicity to algae :

EC50 Species: Scenedesmus subspicatus

Dose: 28.2 mg/l

refer to biomass

EC50 Species: Scenedesmus subspicatus

Dose: 152.2 mg/l

growth rate

Further ecological information

Ecological notes :

The product does not cause essential disturbances of ecological processes and equilibriums, when used in the recommended concentrations and ways of applications.

Do not discharge product unmonitored into the environment.

The product is considered to be a water pollutant (German law).

Ecological data refer to the main components

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local, state, and federal regulations.

Product disposal and : In accordance with local authority regulations, take to special disposal requirements waste incineration plant

Contaminated packaging :

If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

## **SECTION 14 - TRANSPORT INFORMATION**

Sea transport

IMDG:

Class : 9

UN-No : 3082

PG : III

MFAG :

EmS : F-A S-F

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

Hazard release : Polyethersiloxane

Label : 9

Marine pollutant

Air transport

ICAO/IATA:

Class : 9

UN-No : 3082

PG : III

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

Hazard release : Polyethersiloxane

Label : 9

DOT (Department of Transportation)



CFR Road:

Class : 9

UN-No : 3082

PG : III

Proper shipping name : Environmentally hazardous substances, liquid, n.o.s.

Correct technical name : Polyethersiloxane

Label : 9

Marine pollutant

CFR Rail:

Class : 9

UN-No : 3082

PG : III

Proper shipping name : Environmentally hazardous substances, liquid, n.o.s.

Correct technical name : Polyethersiloxane

Label : 9

Marine pollutant

CANADA Transport of Dangerous goods

TDG Road:

Class : 9

UN-No : 3082

PG : III

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

Correct technical name : Polyethersiloxane

Label : 9

Marine pollutant

TDG Rail:

Class : 9

UN-No : 3082

PG : III

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

Correct technical name : Polyethersiloxane

Label : 9

Marine pollutant

**SECTION 15 - REGULATORY INFORMATION**

United States

SARA Section 311/312 : Fire: No

Pressure generating: No

Reactivity: No

Acute: Yes

Chronic: No

SARA Sections : SECTION 313

Notification : No

This product contains no SARA Title III, Section 313 listed chemicals.

SARA Sections : SARA EHS

Notification : No

Notification Status : TSCA

Notification : Yes

California Proposition 65

Statement

: Notification : No

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

Canada :

Notification Status : Canadian Environmental Protection Act

DSL

Notification : Yes

**SECTION 16 - ADDITIONAL INFORMATION**

HMIS Codes : Fire : 1

Health : 3

Physical Hazard : 0

Protection : X

Manufacturer disclaimer :

While the information and recommendations contained herein are believed to be accurate, we make no warranty with respect hereto and disclaim all liability from reliance thereon