

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **MASTERSEAL<sup>®</sup> 360** (Masterseal 360TE)

Company: BASF South East Asia Pte Ltd

Address: 33 Tuas Avenue 11

Singapore 639090

Telephone number: +65 6861 6766

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Emergency telephone numbers: +65 6861 6766

### 2. HAZARDS IDENTIFICATION

Safety hazards: Flammable liquid.

Health hazards: Respiratory irritant. Dizziness, nausea, loss of consciousness in cases of over exposure.  
Prolonged repeated skin contact may cause skin irritation or more serious skin disorders.

Environmental hazards: See Section 12.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical

characterization: Alkoxysilane

Hazardous Ingredients: Isobutyltriethoxysilane.

CAS No: n.as.

Hazard symbols: Flammable Liquid

R-phrases: n.as.

### 4. FIRST AID MEASURES

#### Immediate treatment

Eye contact: Flush thoroughly with water. If irritation occurs, call a physician.

Skin contact: Remove all contaminated clothing and shoes. Dry wipe the skin. Clean the skin area with waterless hand cleaner.

Inhalation: Remove to fresh air. Supply oxygen and / or artificial respiration as needed. Seek medical assistance as needed.

Ingestion: Do not induce vomiting. Contact doctor immediately. Rinse mouth and give glass of water.

Information for physicians: Material if aspirated into the lungs may cause chemical pneumonitis. Treat accordingly.

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### 5. FIRE FIGHTING MEASURES

Special hazards:	Product can form flammable mixtures or can burn only when heated above flash point. However, minor contamination by hydrocarbons of higher volatility may increase the hazard.
Protective equipment:	Fire fighters should wear self-contained breathing apparatus in enclosed areas.
Extinguishing agents:	Foam, carbon dioxide, dry chemical powder.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear appropriate personal protection and ensure adequate ventilation.
Environmental precautions:	Prevent discharge into drains, sewers and waterways, and from entering the soil.
Method for cleaning up:	Absorb in fire retardant treated saw dust, diatomaceous earth or similar material, and dispose at a waste disposal facility in accordance with local regulations.

### 7. HANDLING AND STORAGE

Handling:	Harmful in contact with or if absorbed through the skin. Avoid inhalation of vapours. Keep containers tightly closed when not in use. Ensure containers do not leak.
Requirements for storage rooms:	Store in a cool area. A flammable atmosphere can be produced in storage tank head spaces even when stored at a temperature below the flash point. Ensure there are no ignition sources in the area immediately surrounding filling and venting operations.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Personal protection

Respiratory protection:	Use in a well ventilated area. No special requirements under ordinary conditions of use and with adequate ventilation.
Eye protection:	Wear safety glasses, which comply with local standards.
Hand protection:	Wear long impervious gloves.
Body protection:	Wear protective overalls or other suitable protective clothing such as cotton.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Colourless to pale yellow
Odour:	Alcoholic

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Freezing temperature:	n.a.
Boiling point:	n.d.
Melting point:	n.a.
Flash point:	Approx. 60°C (closed cup)
Vapour pressure:	n.d.
Vapour density:	n.d.
Relative density:	0.88 @ 25°C
pH value:	n.a.
Viscosity:	<10.00 CST

### 10. STABILITY AND REACTIVITY

Stability:	Stable under normal storage and usage temperatures.
Hazardous reactions (conditions to avoid):	Avoid heat, open flames and sources of ignition.
Materials to avoid:	Avoid contact with strong oxidants such as liquid chlorine.
Hazardous decomposition products:	None under normal storage and use temperatures. Carbon monoxide may be formed in the event of incomplete combustion.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity (lethal dose)

##### LD50 oral Albino rat

Dose:	n.d.
Additional information:	n.d.
Information applies to:	MASTERSEAL 360

##### LC50 inhalation Albino rat

Dose:	n.d.
Additional information:	n.a.
Information applies to:	MASTERSEAL 360

#### Acute toxicity (irritation, sensitization etc.)

##### Eye irritation Albino rabbit

Result:	n.d.
Symptoms:	n.d.
Method:	n.d.

##### Skin irritation Albino rabbit

Results:	n.d.
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Symptoms: n.d.

Method: n.d.

### Delayed or chronic toxicological effects

Additional information: n.a.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

LC50 dose: n.d.

### Additional information

Ecotoxicity: Do not allow to absorb into soil. Prevent discharge into drains and waterways.

### Biochemical oxygen demand

COD: n.d.

BOD: n.d.

Other: n.a.

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local and governmental regulations.

## 14. TRANSPORT INFORMATION

### Road transport ADR / RID

Class: Flammable liquid, N.O.S (Isobutyltriethoxysilane)

Number/letter: n.as.

Warning sign: Flammable Liquid

Hazard No: n.as.

UN No: 1993

### Maritime / Air transport IMDG

UN No: 1993

PG: III

Class: Flammable liquid, N.O.S. (Isobutyltriethoxysilane)

IMDG code page: 3.3

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### 15. REGULATORY INFORMATION

Classification: Flammable Liquid.  
Hazard labels: Flammable Liquid.  
R-phrases: n.as.  
S-phrases: n.as.

**National regulatory information:**

n.as.

**Other regulations, restrictions and prohibitions:**

n.a.

### 16. OTHER INFORMATION

Reason for Issue: Review and update.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.