

# Safety Data Sheet

## SL1 LST

Revision date : 2011/06/14  
Version: 1.0

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(30550256/SDS\_GEN\_US/EN)

### 1. Product and Company Identification

Use: Product for construction chemicals

Company  
BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

### 2. Hazards Identification

#### Emergency overview

WARNING:  
COMBUSTIBLE.  
HARMFUL IF INHALED.  
SENSITIZATION CAN OCCUR IN SOME INDIVIDUALS, LEADING TO ASTHMA-LIKE SPASMS OF THE BRONCHIAL TUBES AND DIFFICULTY BREATHING. INDIVIDUALS WITH A HISTORY OF RESPIRATORY ILLNESS, ASTHMATIC CONDITIONS, EYE DAMAGE OR TDI SENSITIZATION SHOULD NOT BE EXPOSED TO THIS PRODUCT. TDI IS INCLUDED IN THE NTP ANNUAL REPORT ON CARCINOGENS. RESULTS FROM A TDI HEALTH STUDY INDICATE THAT OVEREXPOSURE TO A RESPIRATORY IRRITANT, RESULTING IN LOWER RESPIRATORY TRACT SYMPTOMS COULD INCREASE THE RISKS OF DEVELOPING ASTHMA-LIKE REACTIONS FROM SUBSEQUENT TDI EXPOSURE.  
CONTAINS MATERIAL WHICH MAY CAUSE CANCER.  
Irritating to eyes, respiratory system and skin.  
Avoid contact with the skin, eyes and clothing.  
Avoid sources of ignition.

State of matter: liquid  
Colour: pigmented  
Odour: slight odour

#### Potential health effects

##### **Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

##### **Acute toxicity:**

May be harmful if inhaled.

##### **Irritation / corrosion:**

Irritating to eyes, respiratory system and skin.

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### **Sensitization:**

Sensitization after skin contact possible. The substance may cause sensitization of the respiratory tract.

### **Chronic toxicity:**

**Repeated dose toxicity:** Overexposure may cause CNS depression including headache, dizziness, nausea and loss of consciousness.

### **Signs and symptoms of overexposure:**

In sensitized individuals, sensitization reactions may be elicited by structurally similar substances. Respiratory sensitization may result in allergic (asthma-like) signs in the lower respiratory tract including wheezing, shortness of breath and difficulty breathing, the onset of which may be delayed. Repeated inhalation of high concentrations may cause lung damage, including reduced lung function, which may be permanent. Substances eliciting lower respiratory tract irritation may worsen the asthma-like reactions that may be produced by product exposures.

### **Potential environmental effects**

### **Aquatic toxicity:**

The product has not been tested.

## 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
1317-65-3	>= 10.0 - <= 30.0 %	Limestone
14807-96-6	>= 3.0 - <= 7.0 %	talc
13463-67-7	>= 3.0 - <= 7.0 %	Titanium dioxide
53306-54-0	>= 1.0 - <= 5.0 %	bis(2-propylheptyl) phthalate
8052-41-3	>= 1.0 - <= 5.0 %	Stoddard solvent
1305-78-8	>= 0.5 - <= 1.5 %	calcium oxide
91-08-7	>= 0.5 - <= 1.5 %	toluene-2,6-diisocyanate
125643-61-0	>= 0.1 - <= 1.0 %	Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,C7-9-branched alkyl esters
584-84-9	>= 0.1 - <= 1.0 %	toluene-2,4-diisocyanate

## 4. First-Aid Measures

### **General advice:**

Remove contaminated clothing.

### **If inhaled:**

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

### **If on skin:**

Wash affected areas thoroughly with soap and water. Consult a doctor if skin irritation persists.

### **If in eyes:**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

### **If swallowed:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

### **Note to physician**

Antidote:

Specific antidotes or neutralizers to isocyanates do not exist.

Treatment:

Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

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### 5. Fire-Fighting Measures

Flash point: 81.5 °C (ASTM D3278)  
178.7 °F  
Autoignition: not applicable  
Self-ignition temperature: not self-igniting

**Suitable extinguishing media:**  
water spray, foam, carbon dioxide

**Hazards during fire-fighting:**  
nitrous gases, fumes/smoke, isocyanate, vapour

**Protective equipment for fire-fighting:**  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:**  
Sealed containers should be protected against heat as this results in pressure build-up.

### 6. Accidental release measures

**Personal precautions:**  
Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

**Environmental precautions:**  
Do not discharge into drains/surface waters/groundwater.

**Cleanup:**  
Ensure adequate ventilation. Avoid sources of ignition.  
For small amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.  
For large amounts: Contain spillage. Pick up with suitable absorbent material. Sweep/shovel up. Dispose of absorbed material in accordance with regulations.

### 7. Handling and Storage

#### Handling

**General advice:**  
Avoid contact with the skin, eyes and clothing. Avoid excessive temperatures. Avoid humidity.

**Protection against fire and explosion:**  
Avoid all sources of ignition: heat, sparks, open flame. If exposed to fire, keep containers cool by spraying with water.

#### Storage

**General advice:**  
Keep container tightly closed and in a well-ventilated place.

**Storage stability:**  
Storage temperature: 65 - 104 °F  
Protect against moisture.

### 8. Exposure Controls and Personal Protection

#### Components with workplace control parameters

Stoddard solvent OSHA PEL 500 ppm 2,900 mg/m<sup>3</sup> ;

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Titanium dioxide	ACGIH OSHA	TWA value 100 ppm ; PEL 15 mg/m3 Total dust ;
calcium oxide	ACGIH OSHA	TWA value 10 mg/m3 ; PEL 5 mg/m3 ;
talc	ACGIH OSHA	TWA value 2 mg/m3 ; TWA value 20 millions of particles per cubic foot of air ; TWA value 2.4 millions of particles per cubic foot of air Respirable ; The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. TWA value 0.1 mg/m3 Respirable ; The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. TWA value 0.3 mg/m3 Total dust ; The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.
	ACGIH	TWA value 2 mg/m3 Respirable fraction ; The value is for particulate matter containing no asbestos and <1% crystalline silica.
toluene-2,6-diisocyanate		
toluene-2,4-diisocyanate	ACGIH OSHA	TWA value 0.005 ppm ; STEL value 0.02 ppm ; CLV 0.02 ppm 0.14 mg/m3 ;
Limestone	ACGIH OSHA	TWA value 0.005 ppm ; STEL value 0.02 ppm ; PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;

### Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

### Personal protective equipment

#### Respiratory protection:

When atmospheric levels may exceed the occupational exposure limit (PEL or TLV) NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and change out schedules are in place.

#### Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

#### Eye protection:

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

#### Body protection:

Body protection must be chosen based on level of activity and exposure.

#### General safety and hygiene measures:

Wear protective clothing as necessary to prevent contact. Eye wash fountains and safety showers must be easily accessible. Observe the appropriate PEL value. Wash soiled clothing immediately. Contaminated equipment or clothing should be cleaned after each use or disposed of.

## 9. Physical and Chemical Properties

Form:	paste	
Odour:	slight odour	
Colour:	pigmented	
pH value:		not applicable

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Boiling point:		not applicable
Density:	0.97 g/cm3	( 20 °C)
Solubility in water:		( 15 °C) insoluble
Miscibility with water:		not (e.g. <10%)

### 10. Stability and Reactivity

**Conditions to avoid:**

Avoid moisture. Avoid prolonged exposure to extreme heat. Avoid sources of ignition.

**Substances to avoid:**

water, alcohols, strong bases, oxidizing agents, Substances/products that react with isocyanates.

**Hazardous reactions:**

The product is chemically stable.

**Decomposition products:**

Hazardous decomposition products: TOLYLIDENEDIISOCYANATE, carbon monoxide, hydrogen cyanide, aromatic isocyanates, gases/vapours, carbon oxides, nitrogen oxides

**Oxidizing properties:**

Not an oxidizer.

### 11. Toxicological information

**Acute toxicity**

*Information on: Stoddard solvent*

*Assessment of acute toxicity:*

*Aspiration may result in chemical pneumonitis, which may be fatal.*

*Information on: toluene-2,6-diisocyanate*

*Assessment of acute toxicity:*

*Of very high toxicity after short-term inhalation. In animal studies the substance is virtually nontoxic after a single ingestion. In animal studies the substance is virtually nontoxic after a single skin contact.*

*EU-classification*

*Information on: toluene-2,4-diisocyanate*

*Assessment of acute toxicity:*

*Of very high toxicity after short-term inhalation. Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.*

**Irritation / corrosion**

*Information on: calcium oxide*

*Assessment of irritating effects:*

*Corrosive! Damages skin and eyes.*

*Information on: toluene-2,6-diisocyanate*

*Assessment of irritating effects:*

*Irritating to eyes and skin.*

*Information on: toluene-2,4-diisocyanate*

*Assessment of irritating effects:*

*Irritating to eyes and skin.*

**Sensitization**

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*Information on: toluene-2,6-diisocyanate*

*Assessment of sensitization:*

*The substance may cause sensitization of the respiratory tract. Sensitization after skin contact possible.*

*Information on: toluene-2,4-diisocyanate*

*Assessment of sensitization:*

*The substance may cause sensitization of the respiratory tract. Sensitization after skin contact possible.*

### Repeated dose toxicity

*Information on: bis(2-propylheptyl) phthalate*

*Assessment of repeated dose toxicity:*

*Repeated exposure to high doses of the substance causes reversible liver changes in rodents. According to present knowledge, these effects do not occur in man.*

*Information on: Stoddard solvent*

*Assessment of repeated dose toxicity:*

*Overexposure may cause liver and kidney toxicity. Repeated exposures may result in pulmonary congestion.*

*Information on: toluene-2,4-diisocyanate*

*Assessment of repeated dose toxicity:*

*The substance may cause damage to the lung even after repeated inhalation of low doses, as shown in animal studies.*

*Information on: Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,C7-9-branched alkyl esters*

*Assessment of repeated dose toxicity:*

*Repeated exposure may cause adverse thyroid effects as indicated in animal studies. The substance may cause damage to the liver even after repeated ingestion of low doses, as shown in animal studies.*

### Genetic toxicity

*Information on: toluene-2,6-diisocyanate*

*The substance was mutagenic in various test systems with bacterias and cell cultures; however, these results could not be confirmed in tests with mammals. Literature data.*

*Information on: toluene-2,4-diisocyanate*

*The substance was mutagenic in various test systems with bacterias and cell cultures; however, these results could not be confirmed in tests with mammals. Literature data.*

### Carcinogenicity

*Information on: bis(2-propylheptyl) phthalate*

*In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent-specific liver effect that is not relevant to humans. The product has not been tested. The statement has been derived from products of a similar structure or composition.*

*Information on: Titanium dioxide*

*IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats in which the substance was given by inhalation, a carcinogenic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.*

*Information on: toluene-2,6-diisocyanate*

*IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).*

*Information on: toluene-2,4-diisocyanate*

*IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). NTP listed carcinogen*

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### 12. Ecological Information

#### Aquatic toxicity

*Information on: toluene-2,4-diisocyanate*

*Assessment of aquatic toxicity:*

*Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product may hydrolyse. The test result maybe partially due to degradation products.*

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#### Other adverse effects:

Do not release untreated into natural waters. Do not allow to enter soil, waterways or waste water channels. The product has not been tested. The statement has been derived from the properties of the individual components.

### 13. Disposal considerations

#### Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with local authority regulations.

#### Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.  
Do not reuse empty containers.

### 14. Transport Information

Reference Bill of Lading

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical TSCA, US released / listed

##### OSHA hazard category:

IARC 1, 2A or 2B carcinogen; NTP listed carcinogen; Chronic target organ effects reported; OSHA PEL established; ACGIH TLV established

##### EPCRA 311/312 (Hazard categories):

Acute; Chronic

##### EPCRA 313:

###### CAS Number

584-84-9

91-08-7

###### Chemical name

toluene-2,4-diisocyanate

toluene-2,6-diisocyanate

###### CERCLA RQ

5000 LBS

1000 LBS

100 LBS

###### CAS Number

7664-38-2

108-88-3

108-90-7; 75-28-5;

584-84-9; 91-08-7

###### Chemical name

phosphoric acid

Toluene

chlorobenzene; Propane, 2-methyl-; toluene-2,4-diisocyanate;

toluene-2,6-diisocyanate

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### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
MA, NJ, PA	14807-96-6	talc
MA, NJ, PA	13463-67-7	Titanium dioxide
NJ, PA	53306-54-0	bis(2-propylheptyl) phthalate
MA, NJ, PA	8052-41-3	Stoddard solvent
MA, NJ, PA	1305-78-8	calcium oxide
MA, NJ, PA	91-08-7	toluene-2,6-diisocyanate
MA, NJ, PA	584-84-9	toluene-2,4-diisocyanate

### **CA Prop. 65:**

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

## 16. Other Information

### **HMIS III rating**

Health: 2<sup>+</sup>      Flammability: 1      Physical hazard: 1

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

### **MSDS Prepared by:**

BASF NA Product Regulations  
msds@basf.com  
MSDS Prepared on: 2011/06/14

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