



The Chemical Company

# Safety data sheet

## TX1 CARB STONE 300ML

Revision date : 2009/07/28  
Version: 1.0

Page: 1/8  
(30368807/SDS\_GEN\_US/EN)

### 1. Substance/preparation and company identification

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. 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
112-62-9	5.0 - 10.0 %	methyl oleate
13463-67-7	3.0 - 7.0 %	Titanium dioxide
14807-96-6	1.0 - 5.0 %	talc
8052-41-3	1.0 - 5.0 %	Stoddard solvent
1305-78-8	1.0 - 5.0 %	calcium oxide
584-84-9	0.1 - 1.0 %	toluene-2,4-diisocyanate
14808-60-7	0.1 - 1.0 %	crystalline silica

### 3. Hazard identification

#### Emergency overview

DANGER: POISON. 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 CAN CAUSE CANCER

#### 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:

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

##### Information on TDI

*Of very high toxicity after short-term inhalation*

# Safety data sheet

## TX1 CARB STONE 300ML

Revision date : 2009/07/28

Page: 2/8

Version: 1.0

(30368807/SDS\_GEN\_US/EN)

*Of low toxicity after single ingestion.*

*Virtually nontoxic after a single skin contact*

*Information on: Stoddard solvent*

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

### **Irritation:**

Eye contact causes irritation Skin contact causes irritation

*Information on: TDI*

*Irritating to eyes, respiratory system and skin Information on: methyl oleate*

*Eye contact causes irritation Skin contact causes irritation The product has not been tested The*

*statement has been derived from products of a similar structure and composition Information on calcium oxide*

*Corrosive! Damages skin and eyes Information on: crystalline silica*

*Not irritating to the skin The product has not been tested The statement has been derived from*

*products of a similar structure and composition May cause slight irritation to the eyes*

### **Sensitization:**

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

*Information on: TDI*

*The substance may cause sensitization of the respiratory tract*

*Sensitization after skin contact possible*

*Studies in animals suggest that dermal exposure may lead to pulmonary sensitization*

*However, the relevance of this result for humans is unclear.*

### **Repeated dose toxicity:**

*Information on: TDI*

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

*Information on: talc*

*The substance may cause damage to the lung after repeated inhalation.*

*Information on: Stoddard solvent*

*Overexposure may cause liver and kidney toxicity*

*Repeated exposures may result in pulmonary congestion*

*Information on: crystalline silica*

*This product may contain greater than 0.1% crystalline silica*

*Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated non-specific chest illnesses.*

### **Potential environmental effects**

#### **Aquatic toxicity:**

Acutely harmful for aquatic organisms

May cause long-term adverse effects in the aquatic environment

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## 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. Immediate medical attention required.

### **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.

# Safety data sheet

## TX1 CARB STONE 300ML

Revision date : 2009/07/28  
Version: 1.0

Page: 3/8  
(30368807/SDS\_GEN\_US/EN)

### **If swallowed:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. 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: 101.11 °C  
Lower explosion limit: No data available  
Upper explosion limit: No data available

### **Suitable extinguishing media:**

water fog, 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

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## 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:**

Dike spillage.

For small amounts: Absorb isocyanate with suitable absorbent material (see § 40 CFR, sections 260, 264 and 265 for further information). Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90 % water, 8 % concentrated ammonia, 2 % detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.

For large amounts: If temporary control of isocyanate vapor is required, a blanket of protein foam or other suitable foam (available from most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal.

For residues: The following measures should be taken for final cleanup: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes.

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## 7. Handling and storage

### **Handling**

#### **General advice:**

Mix thoroughly before use. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

#### **Protection against fire and explosion:**

No explosion proofing necessary

# Safety data sheet

## TX1 CARB STONE 300ML

Revision date : 2009/07/28

Page: 4/8

Version: 1.0

(30368807/SDS\_GEN\_US/EN)

### Storage

#### **General advice:**

Formation of CO<sub>2</sub> and build up of pressure possible. Protect against contamination. Keep container tightly closed and in a well-ventilated place. Outage of containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture.

#### **Storage incompatibility:**

General: Segregate from bases.

#### **Storage stability:**

Storage temperature: 65 - 105 °F

Protect against moisture. Store at indicated temperature to prevent freezing and isomer separation or discolourization and dimerization. Thaw solidified substance/product at temperature < 95 °F to prevent discolourization.

## 8. Exposure controls and personal protection

### Components with workplace control parameters

Limestone	OSHA	PEL 5 mg/m <sup>3</sup> Respirable fraction ; PEL 15 mg/m <sup>3</sup> Total dust ;
Titanium dioxide	OSHA	PEL 15 mg/m <sup>3</sup> Total dust ;
talc	ACGIH	TWA value 10 mg/m <sup>3</sup> ;
	OSHA	TWA value 20 millions of particles per cubic foot of air ; TWA value 2.4 millions of particles per cubic foot of air Respirable ; TWA value 0.1 mg/m <sup>3</sup> Respirable ; TWA value 0.3 mg/m <sup>3</sup> Total dust ;
Stoddard solvent	ACGIH	TWA value 2 mg/m <sup>3</sup> Respirable fraction ;
	OSHA	PEL 500 ppm 2,900 mg/m <sup>3</sup> ;
calcium oxide	ACGIH	TWA value 100 ppm ;
	OSHA	PEL 5 mg/m <sup>3</sup> ;
toluene-2,4-diisocyanate	ACGIH	TWA value 2 mg/m <sup>3</sup> ;
	OSHA	CLV 0.02 ppm 0.14 mg/m <sup>3</sup> ;
crystalline silica	ACGIH	TWA value 0.005 ppm ; STEL value 0.02 ppm ;
	OSHA	TWA value 2.4 millions of particles per cubic foot of air Respirable ; TWA value 0.1 mg/m <sup>3</sup> Respirable ; TWA value 0.3 mg/m <sup>3</sup> Total dust ;
	ACGIH	TWA value 0.025 mg/m <sup>3</sup> Respirable fraction ;

#### **Advice on system design:**

Provide local exhaust ventilation to control vapours/mists

### Personal protective equipment

#### **Respiratory protection:**

For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions. 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, Suitable materials, chloroprene rubber (Neoprene), chlorinated polyethylene polyvinylchloride (Pylox), butyl rubber, fluoroelastomer (Viton), nitrile rubber (Buna N)

#### **Eye protection:**

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

#### **Body protection:**

Suitable materials: saran-coated material

# Safety data sheet

## TX1 CARB STONE 300ML

Revision date : 2009/07/28  
Version: 1.0

Page: 5/8  
(30368807/SDS\_GEN\_US/EN)

### 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:	liquid	
Odour:	solvent-like	
Colour:	pigmented	
pH value:		not applicable
Boiling point:		Unspecified
Vapour pressure:		No data available
Density:	0.895 g/cm <sup>3</sup>	
Relative density:	0.895	
Vapour density:		Heavier than air
Partitioning coefficient n-octanol/water (log Pow):		No data available.
Solubility in water:		slightly soluble

## 10. Stability and reactivity

### Conditions to avoid:

> 40 degrees Celsius  
Avoid moisture.

### Substances to avoid:

water, alcohols, strong bases

### Hazardous reactions:

The product is chemically stable.  
Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols. Reacts with acids.  
Reacts with alkalis. Reacts with amines. Risk of exothermic reaction. Risk of violent reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.

### Decomposition products:

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

### Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

## 11. Toxicological information

### Acute toxicity

#### Oral:

LD50/rat: 5,800 mg/kg  
Slightly toxic.

#### Inhalation:

LC50/rat: <= 0.78 mg/l / 1 h  
Moderately toxic.  
LC50/rat: 0.1 mg/l / 4 h  
Moderately toxic.

# Safety data sheet

## TX1 CARB STONE 300ML

Revision date : 2009/07/28  
Version: 1.0

Page: 6/8  
(30368807/SDS\_GEN\_US/EN)

### Dermal:

LD50/rabbit: > 9 400 mg/kg  
Practically nontoxic

### Skin irritation:

rabbit: (FHSA Guideline)

### Chronic toxicity

#### Genetic toxicity:

The chemical structure does not suggest a mutagenic effect

#### Information on: TDI

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

#### Carcinogenicity:

No compound related carcinogenic effects.

#### Information on: TDI

*A clear indication of an increased risk of cancer in humans has so far not been shown.*

*In long-term studies, a carcinogenic effect was observed when the substance was given orally to laboratory animals (gavage)*

*Not carcinogenic in laboratory animals after long-term inhalation exposures.*

#### Information on: crystalline silica

*The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen*

#### Information on: talc

*In long-term animal studies in which the substance was given by inhalation in high concentrations a carcinogenic effect was observed.*

#### Reproductive toxicity:

No reproductive effects.

#### Information on: TDI

*The results of animal studies gave no indication of a fertility impairing effect.*

#### Developmental toxicity/teratogenicity:

#### Information on: TDI

*No indications of a developmental toxic / teratogenic effect were seen in animal studies.*

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## 12. Ecological information

*Poorly biodegradable.*

*The product is unstable in water. The elimination data also refer to products of hydrolysis.*

### Environmental toxicity

#### Acute and prolonged toxicity to fish:

static

zebra fish/LC50 (24 h): > 500 mg/l

Practically nontoxic

# Safety data sheet

## TX1 CARB STONE 300ML

Revision date : 2009/07/28  
Version: 1.0

Page: 7/8  
(30368807/SDS\_GEN\_US/EN)

### Acute toxicity to aquatic invertebrates:

static  
Grass shrimp/LC50 (96 h): approx 508 mg/l  
Practically nontoxic  
static  
Pond snail/LC50 (24 h): > 500 mg/l  
Practically nontoxic.

### Chronic toxicity to aquatic invertebrates:

Daphnia magna EC50 (24 h) approx 750 mg/l  
Practically nontoxic.  
Daphnia magna EC50 (24 h) > 500 mg/l  
Practically nontoxic

### Other terrestrial non-mammals:

OECD Guideline 205 redwinged blackbird/LD50: 100 mg/kg = 100  
OECD Guideline 205 European Starling/LD50: > 100 mg/kg = > 100

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## 13. Disposal considerations

### Waste disposal of substance:

TDI is listed as a hazardous waste under Section 261.33 (f) of EPA's RCRA regulations and requires special handling for disposal.  
Incinerate waste containing TDI in a RCRA-licensed facility

### Container disposal:

Empty containers must be neutralized with a decontaminant. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers). Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Under no circumstances should empty drums be burned or cut open with gas or electric torch as toxic decomposition products may be liberated.

RCRA: U223

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## 14. Transport information

### Land transport

USDOT

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

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## 15. Regulatory information

### Federal Regulations

Registration status:

# Safety data sheet

## TX1 CARB STONE 300ML

Revision date : 2009/07/28

Page: 8/8

Version: 1.0

(30368807/SDS\_GEN\_US/EN)

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

**SARA hazard categories (EPCRA 311/312):** Acute Chronic

**SARA 313:**

<u>CAS Number</u>	<u>Chemical name</u>
584-84-9	toluene-2,4-diisocyanate

### State regulations

State RTK

<u>CAS Number</u>	<u>Chemical name</u>	<u>State RTK</u>
1317-65-3	Limestone	MA, PA
112-62-9	methyl oleate	MA
13463-67-7	Titanium dioxide	MA, NJ, PA
14807-96-6	talc	MA, NJ, PA
8052-41-3	Stoddard solvent	MA, NJ, PA
1305-78-8	calcium oxide	MA, NJ, PA
584-84-9	toluene-2,4-diisocyanate	MA, NJ, PA
14808-60-7	crystalline silica	MA, NJ, PA

**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: 3<sup>a</sup> Flammability: 1 Physical hazard: 0

HMIS uses 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 high hazard.

### **Local contact information**

BASF Construction Chemicals  
bcc\_prps@basf.com

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