Safety Data Sheet
SONOLASTIC NP1 CARB OFF WHITE 300ML
Revision date : 2010/09/07
Page: 1/8
Version: 1.1
(30368480/SDS_GEN_US/EN)

1. Product and Company Identification

Use: Product for construction chemicals

Company 24 Hour Emergency Response Information
BASF CORPORATION CHEMTREC: 1-800-424-9300
100 Campus Drive BASF HOTLINE: 1-800-832-HELP
Florham Park, NJ 07932, USA

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 CAN CAUSE CANCER.
Irritating to eyes, respiratory system and skin.
Avoid contact with the skin, eyes and clothing.
Avoid sources of ignition.
No exposure to respirable Crystalline (quartz) Silica anticipated with recommended use of product.

State of matter: solid
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.
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.

Medical conditions aggravated by overexposure:
The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Persons with history of respiratory disease or hypersensitivity should not be exposed to this product. Medical supervision of all employees who handle or come into contact with isocyanates is recommended. Preemployment and periodic medical examinations with respiratory function tests (FEV, FVC as a minimum) are suggested. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates, further exposure is not recommended. Contact may aggravate pulmonary disorders.

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.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1317-65-3</td>
<td>10.0 - 30.0%</td>
<td>Limestone</td>
</tr>
<tr>
<td>112-62-9</td>
<td>3.0 - 7.0%</td>
<td>methyl oleate</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>3.0 - 7.0%</td>
<td>Titanium dioxide</td>
</tr>
<tr>
<td>8052-41-3</td>
<td>1.0 - 5.0%</td>
<td>Stoddard solvent</td>
</tr>
<tr>
<td>14807-96-6</td>
<td>1.0 - 5.0%</td>
<td>talc</td>
</tr>
<tr>
<td>1305-78-8</td>
<td>1.0 - 5.0%</td>
<td>calcium oxide</td>
</tr>
<tr>
<td>584-84-9</td>
<td>0.1 - 1.0%</td>
<td>toluene-2,4-diisocyanate</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>0.1 - 1.0%</td>
<td>crystalline silica</td>
</tr>
</tbody>
</table>

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
5. Fire-Fighting Measures

Flash point: 85 °C (185 °F) (ASTM D3278)  
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.

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.

7. Handling and Storage

Handling

General advice:  
Avoid contact with the skin, eyes and clothing. Avoid excessive temperatures. Avoid humidity. Use only with adequate ventilation and avoid high concentrations of vapors.

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
<table>
<thead>
<tr>
<th>Substance</th>
<th>Agency</th>
<th>TWA value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>crystalline silica</td>
<td>OSHA</td>
<td>2.4 millions of particles per cubic foot of air Respirable</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.1 mg/m³ Respirable</td>
<td>TWA 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.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.3 mg/m³ Total dust</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>0.025 mg/m³ Respirable fraction</td>
<td>TWA 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.</td>
</tr>
<tr>
<td>Stoddard solvent</td>
<td>OSHA</td>
<td>0.02 ppm</td>
<td>OSHA CLV 0.02 ppm 0.14 mg/m³ ; PEL 500 ppm 2900 mg/m³ ; STEL value 0.02 ppm ;</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>0.005 ppm</td>
<td>TWA value 0.005 ppm; STEL value 0.02 ppm ;</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>OSHA</td>
<td>0.1 mg/m³ Respirable</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>0.05 mg/m³ Total dust</td>
<td>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.</td>
</tr>
<tr>
<td>calcium oxide</td>
<td>OSHA</td>
<td>5 mg/m³</td>
<td>PEL 5 mg/m³ ;</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>2 mg/m³</td>
<td>TWA value 2.4 millions of particles per cubic foot of air Respirable ; 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.</td>
</tr>
<tr>
<td>talc</td>
<td>OSHA</td>
<td>0.02 ppm</td>
<td>OSHA CLV 0.02 ppm 0.14 mg/m³ ; PEL 5 mg/m³ Respirable fraction ; PEL 15 mg/m³ Total dust ;</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>0.005 ppm</td>
<td>TWA value 0.005 ppm; STEL value 0.02 ppm ;</td>
</tr>
</tbody>
</table>

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**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>paste</td>
</tr>
<tr>
<td>Odour</td>
<td>slight odour</td>
</tr>
<tr>
<td>Colour</td>
<td>pigmented</td>
</tr>
<tr>
<td>pH value</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density</td>
<td>1.21 g/cm³</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.21</td>
</tr>
<tr>
<td>Bulk density</td>
<td>1,210 kg/m³</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>insoluble</td>
</tr>
</tbody>
</table>

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

11. Toxicological information

Acute toxicity
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.

Oral:
Information on: toluene-2,4-diisocyanate
Type of value: LD50
Species: rat
Value: 6,170 mg/kg
Literature data.

Inhalation:
Information on: toluene-2,4-diisocyanate
Type of value: LC50
Species: rat
Value: 0.1 mg/l
Exposure time: 4 h
Literature data.

Dermal:

Information on: toluene-2,4-diisocyanate
Type of value: LD50
Species: rabbit
Value: > 16,000 mg/kg
Literature data.

Irritation / corrosion

Information on: toluene-2,4-diisocyanate
Assessment of irritating effects:
Irritating to eyes and skin.

Sensitization

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: 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.

Genetic toxicity

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: 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

Information on: crystalline silica
The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen.
NTP listed carcinogen

12. Ecological Information

Aquatic toxicity

Information on: toluene-2,4-diisocyanate
Assessment of aquatic toxicity:
Acuely 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.

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:
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:
Do not reuse empty containers.

RCRA: U223

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

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; Combustible Liquid

EPCRA 311/312 (Hazard categories): Acute; Chronic

EPCRA 313:
CAS Number Chemical name
584-84-9 toluene-2,4-diisocyanate
State regulations

<table>
<thead>
<tr>
<th>State RTK</th>
<th>CAS Number</th>
<th>Chemical name</th>
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<tbody>
<tr>
<td>MA, PA</td>
<td>1317-65-3</td>
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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
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: 2010/09/07

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