

SONNEBORN® 200 ADHESIVE

Version 1.2

11/24/2003

1. PRODUCT AND COMPANY INFORMATION

Company : **Degussa Building Systems**
889 Valley Park Drive
Shakopee, MN 55379

Telephone : 952-496-6000

Emergency telephone number : (800) 424-9300
(703) 527-3887 (Outside Continental US)

Product name : SONNEBORN® 200 ADHESIVE

MSDS ID No. : 11550

TSCA Inventory : All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canadian DSL : All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

Product Use Description : Adhesive

2. HAZARDOUS INGREDIENTS

| Chemical | CAS No. | TLV | STEL | PEL | CEIL | Weight % |
|--------------------------------------|----------------|------------|-------------|------------|-------------|-----------------|
| NAPHTHA PETROLEUM HYDROTREATED LIGHT | 64742-49-0 | N.E. | N.E. | N.E. | N.E. | 10.00 - 30.00 % |
| N-HEXANE | 110-54-3 | 50 ppm | N.E. | 500 ppm | N.E. | 1.00 - 5.00 % |
| SILICA, CRYSTALLINE QUARTZ | 14808-60-7 | 0.05 mg/m3 | N.E. | 5 mg/m3 | N.E. | 0.10 - 1.00 % |

3. HAZARDS IDENTIFICATION

HMIS® Rating : HEALTH 2 FLAMMABILITY 3 PHYSICAL HAZARD 0

WHMIS Class : B2

Primary Routes of Entry : Ingestion
Inhalation
Eye contact
Skin contact
Skin absorption

Effects of Overexposure

Inhalation : Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of high vapor concentrations can cause CNS-depression and narcosis. Prolonged inhalation can be harmful.

Skin : Components of the product may be absorbed into the body through the skin. Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated exposure can cause skin irritation and redness.

Eyes : Can cause slight irritation, redness, tearing and blurred vision.

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- Ingestion : Intake can cause gastrointestinal irritation and nausea.
- Chronic exposure : This product contains solvents. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the vapors and/or the product contents (a process often called "sniffing") can be harmful or fatal. Chronic overexposure to n-Hexane can cause peripheral polyneuropathy and central nerve damage. This product contains Crystalline (quartz) Silica which has been listed as a human carcinogen by NTP (Group 1) and IARC (Human Carcinogen) and a Suspected Human Carcinogen by ACGIH (category A2). Repeated or prolonged over exposure to free respirable Crystalline (quartz) silica can cause silicosis or other delayed and serious lung injury. No exposure to respirable Crystalline (quartz) Silica anticipated with recommended use of product.

Carcinogenicity

| | ACGIH | IARC | NTP | OSHA |
|--------------------------------------|-----------------------------|-------------------|-------------------|------|
| NAPHTHA PETROLEUM HYDROTREATED LIGHT | N.E. | N.E. | N.E. | N.E. |
| N-HEXANE | N.E. | N.E. | N.E. | N.E. |
| SILICA, CRYSTALLINE QUARTZ | Suspected human carcinogen. | Human carcinogen. | Known carcinogen. | N.E. |

4. FIRST AID MEASURES

- Eye contact : Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
- Skin contact : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
- Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.
- Inhalation : Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

- Flash point : < -0.00 °F (-17.78 °C)
- Autoignition temperature : no data available
- Lower explosion limit : no data available
- Upper explosion limit : no data available
- Suitable extinguishing media : water fog
carbon dioxide (CO2)
alcohol-resistant foam
dry chemical
- Fire and Explosion Hazards : Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. Vapors can travel to a source of ignition and flash back. Empty

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containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH. Heating can release vapours which can be ignited. Solid stream of water or foam can cause frothing.

Special Fire-fighting Procedures : Can be ignited by heat, sparks or flame. At higher temperature pressure build up in sealed containers. Use water to cool containers exposed to fire. As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up : Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Take action to eliminate source of leak. Large spills should be handled carefully. Put on respiratory protection and necessary personal protective equipment. Dike or impound spilled Liquid. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Handling : Keep out of reach of children. Use only in area provided with appropriate ventilation. Take precautionary measures against static discharges. Ground and bound containers when transferring material. For personal protection see section 8.

Storage : Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection : Wear as appropriate:
safety glasses with side-shields
goggles
face-shield

Hand protection : Wear Chemically resistant gloves.

Body Protection : Wear as appropriate:
Chemically resistant clothes
preventive skin protection

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygienic Practices : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

Engineering Controls : Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---------------------------|
| Color | : | beige |
| Physical State | : | paste |
| Odor | : | solvent |
| pH | : | not applicable |
| Odor Threshold | : | no data available |
| Vapor Pressure | : | no data available |
| Vapor Density | : | Heavier than air |
| Boiling point/range | : | 149 °F (65 °C) |
| Freeze Point | : | no data available |
| Water solubility | : | insoluble |
| Specific Gravity | : | 1.34 |
| Viscosity | : | 310,000 cps |
| Evaporation rate | : | Faster than Butyl acetate |
| Partition coefficient (n-octanol/water) | : | no data available |
| VOC Concentration as applied (less water and exempt solvents) | : | 258 g/l |

10. STABILITY AND REACTIVITY

| | | |
|----------------------------------|---|---|
| Stability | : | Stable under recommended storage conditions. |
| Conditions to avoid | : | Heat, flames and sparks. Direct sources of heat. Strong sunlight for prolonged periods. Prolonged exposure to high temperatures |
| Materials to avoid | : | oxidizing agents |
| Hazardous decomposition products | : | no data available |
| Hazardous polymerization | : | Will not occur under normal conditions. |

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

| <u>Product</u> | <u>Type</u> LC50 | <u>Value</u> no data available | <u>Species</u> | <u>Exposure time</u> |
|----------------|---------------------|-----------------------------------|----------------|----------------------|
| | | | | |

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Component

| | | |
|-------------------------------------|------|-------------------|
| NAPTHA PETROLEUM HYDROTREATED LIGHT | LC50 | no data available |
| N-HEXANE | LC50 | no data available |
| SILICA, CRYSTALLINE QUARTZ | LC50 | no data available |

Acute oral toxicity

| <u>Product</u> | <u>Type</u> | <u>Value</u> | <u>Species</u> |
|----------------|-------------|-------------------|----------------|
| | LD50 (Oral) | no data available | |

Component

| | | |
|-------------------------------------|-------------|-------------|
| NAPTHA PETROLEUM HYDROTREATED LIGHT | LD50 (Oral) | 763 mg/kg |
| N-HEXANE | LD50 (Oral) | 60 mg/kg |
| SILICA, CRYSTALLINE QUARTZ | LD50 (Oral) | 1,300 mg/kg |

Acute dermal toxicity

| <u>Product</u> | <u>Type</u> | <u>Value</u> | <u>Species</u> |
|----------------|---------------|-------------------|----------------|
| | LD50 (Dermal) | no data available | |

Component

| | | |
|-------------------------------------|---------------|-------------------|
| NAPTHA PETROLEUM HYDROTREATED LIGHT | LD50 (Dermal) | no data available |
| N-HEXANE | LD50 (Dermal) | 91 mg/kg |
| SILICA, CRYSTALLINE QUARTZ | LD50 (Dermal) | no data available |

12. ECOLOGICAL INFORMATION

Ecotoxicological Information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

| | | |
|------|------------------------|-------------|
| DOT | : Proper shipping name | Adhesive |
| | UN-No | 1133 |
| | Class | 3 |
| | Packaging group | III |
| IATA | : Proper shipping name | Adhesive |
| | UN-No | 1133 |
| | Class | 3 |
| | Packaging group | III |

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15. REGULATORY INFORMATION

SARA 311/312 (RTK)

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

FIRE HAZARD IMMEDIATE (ACUTE) HEALTH HAZARD DELAYED (CHRONIC) HEALTH HAZARD

SARA 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

| <u>Weight %</u> | <u>CAS No.</u> | <u>Chemical Name</u> |
|-----------------|----------------|----------------------|
| 1.00 - 5.00 % | 110-54-3 | N-HEXANE |

CERCLA

CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

| <u>RQ</u> | <u>CAS No.</u> | <u>Chemical Name</u> |
|-----------|----------------|----------------------|
| 5,000 lbs | 110-54-3 | N-HEXANE |

TSCA Section 12(b) Export Notification

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

| <u>CAS No.</u> | <u>Chemical Name</u> |
|----------------|----------------------|
|----------------|----------------------|

There are no TSCA 12(b) Chemicals in this product.

California Proposition 65

The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

| <u>CAS No.</u> | <u>Chemical Name</u> |
|----------------|----------------------------|
| 14808-60-7 | SILICA, CRYSTALLINE QUARTZ |

16. OTHER INFORMATION

Legend : N.E. - Not Established
 TLV - Threshold Limit Value
 STEL - Short Term Exposure Limit
 PEL - Permissible Exposure Limit
 CEIL - Ceiling

Prepared By : Environment, Health and Safety Department

This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of the manufacturer's knowledge, or is obtained from sources believed by the manufacturer to be accurate and is not intended to be all inclusive. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. The manufacturer assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, the manufacturer assumes no responsibility for

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injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

End of MSDS.