Material Safety Data Sheet

BASF
The Chemical Company

SONNEBORN® PREMIUM ADHESIVE

Version 1.5 06/28/2006

1. PRODUCT AND COMPANY INFORMATION

Company	:	**BASF 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® PREMIUM ADHESIVE
MSDS ID No.	:	10681
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 %
HYDROTREATED MIDDLE PETROLEUM DISTILLATES	64742-46-7		N.E.	N.E.	N.E.	5.00 - 10.00 %
METHYLENE BISPHENYL DIISOCYANATE	101-68-8	0.005 ppm	N.E.	N.E.	0.02 ppm	1.00 - 5.00 %
POLYMETHYLENE POLYPHENYL ISOCYANATE	9016-87-9	N.E.	N.E.	N.E.	N.E.	1.00 - 5.00 %

3. HAZARDS IDENTIFICATION

	HEALTH	FLAMMABILITY	PHYSICAL HAZARD
HMIS® Rating	2	1	0

WHMIS Class : D2B

Primary Routes of Entry : Skin contact
Inhalation
Eye contact

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 : Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated exposure can cause skin irritation and redness. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.

Eyes : Can cause slight irritation.

Ingestion : Intake can cause gastrointestinal irritation, nausea, and vomiting.

Chronic exposure : Existing respiratory or skin ailments may be aggravated by 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. This product contains isocyanates. Prolonged repeated exposure to isocyanates can lead to skin sensitization. For persons so sensitized even brief exposures to an isocyanate can produce reddening, swelling, rash, or blisters. Similarly, prolonged and repeated exposure to isocyanates can lead to respiratory sensitization. In such individuals, brief exposures to isocyanates at levels well below established exposure limits can produce chemical asthma and nonspecific asthmatic conditions.

Carcinogenicity

	ACGIH	IARC	NTP	OSHA
HYDROTREATED MIDDLE PETROLEUM DISTILLATES	N.E.	N.E.	N.E.	N.E.
METHYLENE BISPHENYL DIISOCYANATE	N.E.	No data.	N.E.	N.E.
POLYMETHYLENE POLYPHENYL ISOCYANATE	N.E.	No data.	N.E.	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 : 250.00 °F (121.11 °C)

Autoignition temperature : no data available

Lower explosion limit	:	1.6 %(V)
Upper explosion limit	:	10.2 %(V)
Suitable extinguishing media	:	carbon dioxide (CO2) dry chemical water fog
Fire and Explosion Hazards	:	Containers can build up pressure if exposed to heat (fire). Cool closed containers exposed to fire with water spray. Solid stream of water or foam can cause frothing.
Special Fire-fighting Procedures	:	As in any fire, wear pressure demand self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	:	Wear appropriate protective equipment (refer to section 8). Take action to eliminate source of leak; prevent from entry into open streams or sewers; contain spill by diking; vacuum up liquid or use absorbent media; remove to storage for disposal and rinse residual stain with water.

7. HANDLING AND STORAGE

Handling	:	Use only in area provided with appropriate ventilation. Keep out of reach of children. For personal protection see section 8.
Storage	:	Keep tightly closed in a dry and cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection	:	Wear as appropriate: safety glasses with side-shields goggles face-shield
Hand protection	:	Wear as appropriate: impervious gloves
Body Protection	:	Wear as appropriate: impervious clothing 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 NIOSH approved 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color	:	tan
Physical State	:	paste
Odor	:	mild oily
pH	:	no data available
Odor Threshold	:	no data available
Vapor Pressure	:	no data available
Vapor Density	:	Heavier than air
Boiling point/range	:	342.00 - 514.00 °F (172.22 - 267.78 °C)
Freeze Point	:	no data available
Water solubility	:	slightly soluble
Specific Gravity	:	1.26
Viscosity	:	no data available
Evaporation rate	:	Slower than Butyl acetate
Partition coefficient (n-octanol/water)	:	no data available
VOC Concentration as applied (less water and exempt solvents)	:	45 g/l

10. STABILITY AND REACTIVITY

Stability	:	Stable under recommended storage conditions.
Conditions to avoid	:	Prolonged exposure to high temperatures
Materials to avoid	:	strong acids strong bases strong oxidizing agents
Hazardous decomposition products	:	Burning produces obnoxious and toxic fumes. Oxides of carbon
Hazardous polymerization	:	Will not occur when handled according to manufacturer's instructions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

	Type	Value	Species	Exposure time
Product	LC50	no data available		
Component				
HYDROTREATED MIDDLE PETROLEUM DISTILLATES	LC50	no data available		
METHYLENE BISPHENYL DIISOCYANATE	LC50	no data available		
POLYMETHYLENE POLYPHENYL ISOCYANATE	LC50	no data available		

Acute oral toxicity

	Type	Value	Species
Product	LD50 (Oral)	no data available	
Component			
HYDROTREATED MIDDLE PETROLEUM DISTILLATES	LD50 (Oral)	no data available	
METHYLENE BISPHENYL DIISOCYANATE	LD50 (Oral)	9,200 mg/kg	
POLYMETHYLENE POLYPHENYL ISOCYANATE	LD50 (Oral)	no data available	

Acute dermal toxicity

	Type	Value	Species
Product	LD50 (Dermal)	no data available	
Component			
HYDROTREATED MIDDLE PETROLEUM DISTILLATES	LD50 (Dermal)	no data available	
METHYLENE BISPHENYL DIISOCYANATE	LD50 (Dermal)	no data available	
POLYMETHYLENE POLYPHENYL ISOCYANATE	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	Not regulated
IATA	:	Proper shipping name	Not regulated

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:

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:

Weight %	CAS No.	Chemical Name
1.00 - 5.00 %	101-68-8	METHYLENE BISPHENYL DIISOCYANATE
1.00 - 5.00 %	9016-87-9	POLYMETHYLENE POLYPHENYL ISOCYANATE

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.

RQ	CAS No.	Chemical Name
5,000 lbs	101-68-8	METHYLENE BISPHENYL DIISOCYANATE

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:

CAS No.	Chemical Name

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%:

CAS No.	Chemical Name
7440-38-2	ARSENIC
7439-92-1	INORGANIC LEAD
7440-43-9	CADMIUM
14808-60-7	SILICA, CRYSTALLINE QUARTZ

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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

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End of MSDS.