

MATERIAL SAFETY DATA SHEET-SUREBOND II


U.S. Rubber
RECYCLING, INC.

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was cool !!!**

Taking recycling technology into the 21st Century

1. PRODUCT AND COMPANY INFORMATION

Company	U.S. RUBBER RECYCLING INC. 1231 LINCOLN STREET COLTON, CA 92324
Telephone	(909)-825-1200
Emergency telephone number :	(800) 473-8453
Product name	Surebond II
MSDS ID No.	
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

3. HAZARDOUS INGREDIENTS

Chemical	CAS No.	TLV	STEL	PEL	CEIL	Weight %
HYDROTREATED MIDDLE PETROLEUM DISTILLATES	64742-46-7	N.E.	N.E.	N.E.	N.E.	5.00 - 10.00 %
POLYMETHYLENE POLYPHENYL ISOCYANATE	9016-87-9	N.E.	N.E.	N.E.	N.E.	0.00 - 5.00 %
METHYLENE BISPHENYL DIISOCYANATE	101-68-8	0.005 ppm	N.E.	N.E.	0.02 ppm	0.00 - 5.00 %

3. HAZARDS IDENTIFICATION

HMIS® Rating	HEALTH 2	FLAMMABILITY 1	PHYSICAL HAZARD 0
WHMIS Class	D2B		
Primary Routes of Entry	Inhalation Skin contact 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	Can cause slight irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.
Eyes	Can cause slight to moderate irritation, redness, tearing and blurred vision.



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Ingestion Intake can cause gastrointestinal irritation and nausea.

Chronic exposure 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. 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.
POLYMETHYLENE POLYPHENYL ISOCYANATE	N.E.	No data.	N.E.
METHYLENE BISPHENYL DI ISOCYANATE	N.E.	No data.	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.

6. FIRE-FIGHTING MEASURES

Flash point 250.00 °F (121.11 °C) Method: Taglibue C. C.

Autoignition temperature no data available

Lower explosion limit 1.6 %(V)

Upper explosion limit 10.2 %(V)

Suitable extinguishing media carbon dioxide (CO2)



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	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.
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.
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8. HANDLING AND STORAGE

Handling	Keep out of reach of children. For personal protection see section 8.
Storage	Keep tightly closed.

10. 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

12. PHYSICAL AND CHEMICAL PROPERTIES

Color	clear
Physical State	liquid



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Odor	mild oily
pH	not applicable
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	1.25
Viscosity	no data available
Evaporation rate	Slower than Butyl acetate
Partition coefficient (n-octanol/water)	no data available
VOC Concentration as applied : 45 g/l (less water and exempt solvents)	

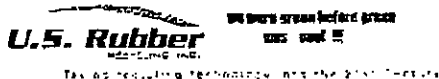
10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to avoid	Prolonged exposure to high temperatures
Materials to avoid	strong oxidizing agents
Hazardous decomposition products	Thermal decomposition: MDI vapors Irritating or toxic fumes Oxides of carbon
Hazardous polymerization	: Will not occur under normal conditions.

12. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

Product	Type	Value	Species	Exposure time
	LC50	no data available		
Component				
HYDROTREATED MIDDLE PETROLEUM.	LC50	no data available		



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DISTILLATES
 POLYMETHYLENE POLYPHENYL ISOCYANATE LC50 no data available
 METHYLENE BISPHENYL DIISOCYANATE LC50 no data available

Acute oral toxicity

Product	Type	Value	Species
	LD50 (Oral)	no data available	

Component

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

Acute dermal toxicity

Product	Type	Value	Species
	LD50 (Dermal)	no data available	

Component

HYDROTREATED MIDDLE PETROLEUM DISTILLATES	LD50 (Dermal)	no data available	
POLYMETHYLENE POLYPHENYL ISOCYANATE	LD50 (Dermal)	no data available	
METHYLENE BISPHENYL DIISOCYANATE	LD50 (Dermal)	no data available	

12. ECOLOGICAL INFORMATION

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

14. 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.

16. TRANSPORT INFORMATION

DOT : Proper shipping name Not regulated
 IATA : Proper shipping name Not regulated

18. 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:

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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>
0.00 - 5.00 %	9016-87-9	POLYMETHYLENE POLYPHENYL ISOCYANATE
0.00 - 5.00 %	101-68-8	METHYLENE BISPHENYL DIISOCYANATE

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	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:

<u>CAS No.</u>	<u>Chemical Name</u>
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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
7440-43-9	CADMIUM
7439-92-1	INORGANIC LEAD
7440-38-2	ARSENIC

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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