

Safety Data Sheet

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Revision Number 10



SECTION 1 Identification of the substance/mixture and of the company/undertaking

Product identification used on label

Product identifier	8513 DAUBOND® U8501-01
Details of the supplier of the safety data sheet	Daubert Chemical Company 4700 S. Central Avenue Chicago, IL 60638 708-496-7350
Emergency telephone number	Chemtrec: (800) 424-9300
Relevant identified uses of the substance or mixture and uses advised against	Hot melt urethane adhesive

SECTION 2 Hazards identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Hazard Symbols



GHS Classification	Respiratory Sensitisation Category 1 Skin Sensitisation Category 1 Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1
Signal Word	Danger
Hazard Statements	Molten material can cause thermal burns. When heated, the vapors/fumes given off may cause respiratory tract irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes damage to organs through prolonged or repeated exposure.
Precautionary Statements	
Prevention	Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.
Response	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

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Specific treatment: None known
If skin irritation or rash occurs: Get medical advice/attention.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Wash contaminated clothing before reuse.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

SECTION 3 Composition/information on ingredients

Chemical Name	CAS #	%
4,4'-Diphenylmethane diisocyanate	101-68-8	1 - 5

Note: Specific chemical identities and/or exact percentages have been withheld as a trade secret.

SECTION 4 First aid measures

Inhalation	If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice. Asthmatic-type symptoms potentially caused by the exposure, may develop but the onset may be delayed for several hours.
Eyes	Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops or persists. If burned by contact with hot material, molten material adhering to skin should be cooled as quickly as possible with water and see a physician for removal of adhering material and treatment of burn.
Ingestion	Do not induce vomiting and seek medical attention immediately. Provide medical care provider with this SDS.
Most important symptoms/effects, acute and delayed	See Section 11
Indication of immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5 Firefighting measures

Suitable extinguishing media:	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. Water spray
Unsuitable extinguishing media:	No data available
Fire and/or Explosion Hazards	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire. If product is heated above its flash point it will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source..
Fire Fighting Methods and Protection	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use appropriate methods for the surrounding fire.
Hazardous Combustion Products	Isocyanates, Carbon dioxide, Carbon monoxide, Toxic fumes, Oxides of nitrogen, Smoke, Isocyanic acid, Hydrogen cyanide

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SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures	Clean up spills immediately using Protective Equipment recommended in Section VIII at a minimum.
Methods and materials for containment and cleaning up	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

SECTION 7 Handling and storage

Precautions for safe handling	Mildly irritating material. Avoid unnecessary exposure. Avoid contact with molten material. When heated, the vapor/fumes given off may cause respiratory tract irritation.
Conditions for safe storage, including any incompatibilities	Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Contents may develop pressure on prolonged exposure to heat
Incompatible materials	Strong oxidizing agents, Water, Strong alkalies, Alcohols, Copper alloys

SECTION 8 Exposure controls/personal protection

Control parameters

<u>Chemical Name</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>	<u>OSHA PEL</u>
4,4'-Diphenylmethane diisocyanate	0.005 ppm		0.02 ppm (ceiling)

Engineering Measures	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.
Respiratory Protection	Proper ventilation (at a minimum) will be required when handling this product. Use respirators (NIOSH approved) only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels. If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.
Eye Protection	Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.
Skin Protection	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. When handling material that has been heated, wear chemically resistant thermally insulating gloves, chemical resistant apron, long sleeves and other clothing as necessary to protect against thermal burns.
Gloves	Heat insulating gloves

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SECTION 9 Physical and chemical properties (Typical, not specification)

Physical State	Solid (room temperature), molten liquid as applied
Color	White to slightly yellow
Odor	Slight
Odor Threshold	No data available
pH	No data available
Melting Point/freezing point, °C	No data available
Initial boiling point and boiling range, °C	No data available
Flash Point	Not applicable
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
Lower Flammable/Explosive Limit, % in air	No data available
Upper Flammable/Explosive Limit, % in air	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity @ 25°C	1.08
Solubility in Water	Not determined
Octanol/Water Partition Coefficient	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity @ 250°F	Typical 20000 cP
Volatiles, % by weight	No data available
VOC, lb/gal	No data available
VOC, grams/liter	No data available

SECTION 10 Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under normal conditions. Hazardous polymerization may occur.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Contact with water. Temperatures above 350°F (177°C).
Incompatible materials	Strong oxidizing agents, Water, Strong alkalies, Alcohols, Copper alloys
Hazardous decomposition products	Under normal conditions of use & storage, decomposition and hazardous decomposition products are unlikely.

SECTION 11 Toxicological information

Likely Routes of Entry	Inhalation, Skin contact, Eye contact
Target Organs Potentially Affected by Exposure	Lungs
Chemical Interactions That Change Toxicity	No chemical interaction known to affect toxicity.
Medical Conditions Aggravated	Respiratory disease including asthma and bronchitis, Skin contact may aggravate existing skin disease

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Immediate (Acute) Health Effects by Route of Exposure

Inhalation Irritation	Vapors and/or aerosols that may be formed at elevated temperatures may be irritating to the respiratory tract. Other possible symptoms include; wheezing and coughing due to pulmonary edema (fluid build-up in lungs). Gas, vapor, mist, or dust may be harmful if inhaled. May cause allergic respiratory reaction.
Skin Contact	May cause sensitization.
Eye Contact	Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
Ingestion Irritation	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
Ingestion Toxicity	Not believed to have any significant toxicity.

Long-Term (Chronic) Health Effects

Carcinogenicity	There are no carcinogenic ingredients present at or over 0.1%.
Inhalation	Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs")
Skin Contact	Can cause isocyanate sensitization and respiratory reaction.
Skin Absorption	Skin sensitization, characterized by redness, inflammation, itching and/or burning may result from prolonged or repeated contact with this material.
Ingestion	Under normal industrial usage conditions, ingestion is highly unlikely.

Additional Health Effects Harmful if inhaled or absorbed through skin. May cause delayed lung damage.

Component Toxicology Data

Chemical Name	CAS Number	LD50/LC50
4,4'-Diphenylmethane diisocyanate	101-68-8	Dermal LD50 Rabbit > 9400 mg/kg Oral LD50 Rat > 7616 mg/kg Inhalation LC50 (4h) Rat 0.368 mg/L

SECTION 12 Ecological information

Overview	No ecological information available
Mobility	No data
Persistence	No data
Bioaccumulation	No data
Degradability	No data

Ecotoxicity Data

Chemical Name	CAS Number	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
4,4'-Diphenylmethane diisocyanate	101-68-8	EC50 (24 hr) Water flea > 500 mg/L		LC50 (24 hr) Zebra Fish > 500 mg/L

SECTION 13 Disposal considerations

Waste Description for Spent Product	Spent or discarded material is not expected to be a hazardous waste.
Disposal Methods	Dispose of in accordance with Local and National regulations.
Waste Disposal Code(s)	Not applicable

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SECTION 14 Transport information

Full shipping name for Cement, Adhesive / Non-Hazardous
Export, Air, Sea (any quantity unless flash pt. >150°F) or vessels of 119 GL or more
Domestic Ground in vessels < 119 gal. Non-Hazardous

SECTION 15 Regulatory information

Status of formula components on selected national regulatory inventories:

LIST	STATUS
TSCA	All components in this product are on the TSCA Inventory or exempt.
Canadian DSL	Contact customer service (800-688-0459 or SDS@DAUBERT.COM) for registration status of this product in Canada.

Chemical Name	CAS #	Regulation	Percent
4,4'-Diphenylmethane diisocyanate	101-68-8	CERCLA	1 - 5 RQ = 5000 lbs
4,4'-Diphenylmethane diisocyanate	101-68-8	SARA 313	1 - 5
No SARA 302 EHS-listed chemicals in this product.		SARA EHS	

SECTION 16 Other information

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Disclaimer Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.
Version Reviewed
Comments Approved: M. Hogan