

Safety Data Sheet

Revision Date 04-22-2015
Revision Number 1



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

Product identification used on label

Product identifier	2446 DAUBOND 6549
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	Liquid polyurethane 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
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Acute Toxicity - Inhalation Vapour Category 4

Signal Word
Hazard
Statements

Danger
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause 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.
Use only outdoors or in a well-ventilated area.

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Response	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. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell. Specific treatment: None known If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
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 #	%
Diphenylmethane diisocyanate (MDI)	26447-40-5	15 - 40
4,4'-Diphenylmethane diisocyanate	101-68-8	10 - 30

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.
Eyes	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.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.
Ingestion	Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.
Note to Doctor	Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media	Use methods suitable to fight surrounding fire.
Fire and/or Explosion Hazards	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

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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 Hydrogen cyanide, Oxides of nitrogen, Isocyanates

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods and materials for containment and cleaning up Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.

SECTION 7 Handling and storage

Precautions for safe handling Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Do not reuse containers.

Conditions for safe storage, including any incompatibilities Store in tightly sealed original container. Store in a cool dry place.

Incompatible materials Acids, Alcohols, Amines, Caustics (bases)

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.

Eye Protection Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

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.

Gloves Impervious rubber

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

Physical State	Liquid
Color	Brown
Odor	Slight Characteristic
Odor Threshold	No data available
pH	Not applicable
Melting Point, °C	No data available
Boiling Point, °C	208
Flash Point	414 °F(212 °C)
Evaporation Rate	<1 (n-Butyl Acetate=1)
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	0.01 Pa
Vapor Density	>1 (Air=1)
Specific Gravity @ 25°C	1.13
Solubility in Water	Insoluble
Octanol/Water Partition Coefficient	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity@ 20°C	8000 cP
Volatiles, % by weight	No data available
VOC, lb/gal	No data available
VOC, grams/liter	Not determined

SECTION 10 Stability and reactivity

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Exothermic reactions with amines, alcohols, acids and bases. Reacts with water forming CO ₂ -gas. In closed containers risk of bursting owing to increase of pressure.
Conditions to avoid	None known.
Incompatible materials	Acids, Alcohols, Amines, Caustics (bases)
Hazardous decomposition products	Carbon monoxide, carbon dioxide, Cyanide, Nitrogen oxides, Isocyanates, Hydrocarbons

SECTION 11 Toxicological information

Likely Routes of Entry	Inhalation, Absorption
Target Organs Potentially Affected by Exposure	Respiratory System, Skin
Chemical Interactions That Change Toxicity	No chemical interaction known to affect toxicity.

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Immediate (Acute) Health Effects by Route of Exposure

Inhalation Irritation	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity	Can cause systemic damage (see "Target Organs")
Skin Contact	May cause skin irritation. Allergic reactions are possible. May cause sensitization.
Skin Absorption	May cause irritation and minor systemic damage.
Eye Contact	Can cause irritation.
Ingestion Irritation	Ingestion is not considered a likely route of exposure. If swallowed, consult a physician.
Ingestion Toxicity	Not believed to have any significant toxicity.

Long-Term (Chronic) Health Effects

Carcinogenicity	Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.
Reproductive and Developmental Toxicity	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs")
Skin Absorption	Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause minor systemic 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 < Not Hazardous
119 gal.

SECTION 15 Regulatory information

TSCA Status 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
status: this product in Canada.

Chemical Name	CAS #	Regulation	Percent
4,4'-Diphenylmethane diisocyanate	101-68-8	CERCLA	10 - 30
			RQ = 5000 lbs
4,4'-Diphenylmethane diisocyanate	101-68-8	SARA 313	10 - 30

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 Original
Comments Approved: M. Hogan / M. Duncan