

<p>Supplied By: <i>StaFast Building Products</i> 7095 Americana Parkway Reynoldsburg, Ohio 43068 1-800-223-4714</p> <p>Trade Name: <i>StaDeck Insulation Adhesive</i></p>
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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone	1-800-ASHLAND (1-800-274-5263)

FOR CHEMICAL EMERGENCY: call Chemtrec at 800-424-9300 24 hours

Product name	STADECK INSULATION ADHESIVE
Product code	120447
Product Use Description	No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, tan

WARNING! MAY BE HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Potential Health Effects

Exposure routes

Inhalation, Skin contact, Ingestion

Eye contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin contact

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects)

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

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Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. This product is a two-part urethane system. While breathing 4,4'-diphenylmethane diisocyanate (MDI) can be harmful or fatal, breathing MDI is not expected during normal use of this system.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: respiratory tract, skin, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), cough, discomfort in the chest, Headache, shortness of breath, Exposure to this product (or a component) may cause an allergic reaction (narrowing of the air passages of the lungs resulting in difficult breathing, tightness in the chest, coughing and wheezing) in some sensitive individuals. Other symptoms of an allergic reaction may include itchy and watery eyes, runny and stuffy nose, sweating, flushing, hives, rapid heart rate, and lowered blood pressure.

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: respiratory sensitization

Carcinogenicity

In a two-year inhalation study in rats, exposure to polymeric methylene bisphenylisocyanate (MDI) aerosol caused a significant increase in benign (noncarcinogenic) lung tumors, along with a single carcinogenic lung tumor, at the highest dose only (6 mg/m³). The tumors occurred along with irritation of the respiratory tract and the accumulation of a yellow material in the lungs. There was irritation only at 1.0 mg/m³ and no effect at 0.2 mg/m³. MDI is not listed as carcinogenic by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

There are no data available for assessing risk to the fetus from maternal exposure to this material.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8	>=20-<30%
POLY(METHYL NEPHENYLENE) POLYISOCYANATE	9016-87-9	>=5-<10%
METHYLENE DIPHENYLISOCYANATE	26447-40-5	>=1.5-<5%

4. FIRST AID MEASURES

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: No information available.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

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Suitable extinguishing media

Water mist, Carbon dioxide (CO₂), Dry chemical

Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrogen cyanide (hydrocyanic acid), nitrogen compounds, various hydrocarbons

Precautions for fire-fighting

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid.

Flammability Class for Flammable Liquids

Combustible Liquid Class IIB

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

No data

Environmental precautions

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Methods for cleaning up

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Neutralize spill with an aqueous solution of ammonia. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Absorb liquid on vermiculite, floor absorbent or other absorbent material.

7. HANDLING AND STORAGE

Handling

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Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Store in a cool, dry, ventilated area, away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8
ACGIH	time weighted average 0.005 ppm
NIOSH	Recommended exposure limit (REL): 0.005 ppm
NIOSH	Recommended exposure limit (REL): 0.05 mg/m3
NIOSH	Ceiling Limit Value and Time Period (if specified): 0.020 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified): 0.2 mg/m3
OSHA Z1	Ceiling Limit Value: 0.02 ppm
OSHA Z1	Ceiling Limit Value: 0.2 mg/m3
OSHA Z1A	Ceiling Limit Value: 0.02 ppm
OSHA Z1A	Ceiling Limit Value: 0.2 mg/m3
US CA OEL	Time Weighted Average (TWA) Permissible Exposure Limit (PEL): 0.005 ppm
US CA OEL	Time Weighted Average (TWA) Permissible Exposure Limit (PEL): 0.051 mg/m3

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

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Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves such as:

Nitrile rubber

butyl-rubber

Viton (R)

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Colour	tan
Odour	No data
Boiling point/boiling range	143.89 °C / 291.00 °F@ 1,013.33 hPa
pH	No data
Flash point	(>)200.1 °F / 93.4 °C
Evaporation rate	No data
Explosion limits	No data
Vapour pressure	1.33 hPa @ 68 °F / 20 °C

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Vapour density	No data
Density	1.151 g/cm ³ @ 77.00 °F / 25.00 °C 9.589 lb/gal @ 77.00 °F / 25.00 °C
Solubility	No data
Partition coefficient: n-octanol/water	No data
log Pow	no data available
Autoignition temperature	No data

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

excessive heat

Incompatible products

Alcohols, strong alkalis, strong mineral acids, water

Hazardous decomposition products

carbon dioxide and carbon monoxide, Hydrogen cyanide (hydrocyanic acid), nitrogen compounds, various hydrocarbons

Hazardous reactions

Product can undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

4,4'-DIPHENYLMETHANE DIISOCYANATE	LD 50 Rat: 9,200 mg/kg
POLY(METHYL NEPHENYLENE) POLYISOCYANATE	LD 50 Rat: > 10,000 mg/kg
METHYLENE DIPHENYLISOCYANATE	LD 50 Rat: > 15,800 mg/kg

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Acute inhalation toxicity

4,4'-DIPHENYLMETHANE DIISOCYANATE	LC 50 Rat: 0.369 mg/l , 4 h
POLY(METHYL NEPHENYLENE) POLYISOCYANATE	LC 50 Rat: 369 - 490 mg/m3 , 4 h
METHYLENE DIPHENYLISOCYANATE	LC 50 Rat: 490 mg/m3 , 4 h

Acute dermal toxicity

4,4'-DIPHENYLMETHANE DIISOCYANATE	LD 50 Rabbit: > 7,900 mg/kg
POLY(METHYL NEPHENYLENE) POLYISOCYANATE	LD 50 Rabbit: > 10,000 mg/kg
METHYLENE DIPHENYLISOCYANATE	LD 50 Rabbit: > 5,010 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

No data

Acute Toxicity to Aquatic Invertebrates

No data

Environmental fate and pathways

No data

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Destroy by liquid incineration in accordance with applicable regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SARA Hazard Classification Fire Hazard
 Acute Health Hazard

SARA 313 Component(s)

4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8	22.82%
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POLY(METHYL NEPHENYLENE) POLYISOCYANATE	9016-87-9	9.19%
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New Jersey RTK Label Information

POLYMER	NJTS 800986-5574P
4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8
POLY(METHYL NEPHENYLENE) POLYISOCYANATE	9016-87-9
POLYMER	NJTS 254504001-5759
METHYLENE DIPHENYLISOCYANATE	26447-40-5

Pennsylvania RTK Label Information

POLYMER	NJTS 800986-5574P
4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8
POLY(METHYL NEPHENYLENE) POLYISOCYANATE	9016-87-9
POLYMER	NJTS 254504001-5759

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302)	21913 lbs
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Reportable quantity - Components

4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8	5000 lbs
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ASHLAND
SAFETY DATA SHEET

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POLY(METHYL NEPHENYLENE) POLYISOCYANATE	9016-87-9	none
METHYLENE DIPHENYLISOCYANATE	26447-40-5	none

	Health	Flammability	Reactivity	Other
HMIS	2	1	1	
NFPA	3	1	1	

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).