SAFETY DATA SHEET



6200 Grand Pointe Drive Grand Blanc, MI 48439 1-800-223-3526 www.acdelco.com

10-1012, 12378568 - ACDelco Structural Urethane Installation Adhesive Medium Set - Pt A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Product Use/Class: ACDelco Structural Urethane Installation Adhesive Medium Set Pt A Urethane Adhesive, Part 1 of 2

Distributor: ACDelco 6200 Grand Pointe Drive Grand Blanc, MI 48439 Telephone: 1-800-223-3536

Chemtrec 24 Hr Transportation Emergency No. 800 424-9300 (Outside Continental U.S. 703 527-3887)

EFFECTIVE DATE: 03/12/2015

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Acute toxicity Inhalation - VapoursCategory 4 - 37.2% of the mixture consists of ingredient(s) of unknown toxicity. Acute toxicity Inhalation - Dust and Mist Category 4 - 37.2% of the mixture consists of ingredient(s) of unknown toxicity. Exposure is not expected during application of this product; possible exposure exists if the dried/cured product is sanded. Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Skin sensitization Category 1 Respiratory sensitization Category 1 Carcinogenicity Category 2 Specific target organ systemic toxicity (single exposure) Category 3 Specific target organ systemic toxicity (repeated exposure) Category 1 Respiratory system

GHS LABEL ELEMENTS:

Symbol(s)



Signal Word

DANGER

Hazard Statements

Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure.(Respiratory system)

Precautionary Statements

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/eye protection/face protection. Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace.

Response

Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take off contaminated clothing and wash before reuse.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container in accordance with waste/disposal laws and regulations of your country or particular locality.

Other Hazards:

This product contains component(s) which have the following warnings; however based on the GHS classification criteria of your country or locale, the product mixture may be outside the respective category(s).

Acute: Possible irritation of the respiratory system can occur causing a variety of symptoms such as dryness of the throat, tightness of the chest, and shortness of breath. May cause lung damage. Animal tests have indicated that respiratory sensitization can result from skin contact with certain isocyanates. Allergic conditions can occur in certain individuals with high sensitivity to isocyanates; this may result in asthma-like symptoms. Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

Chronic: Prolonged or repeated contact may result in dermatitis. May cause long-term lung damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight % Less Than
4,4'-Diphenylmethane diisocyanate	101-68-8	20.0 %
Aromatic polyisocyanate	PROPRIETARY	15.0 %
Diphenylmethane diisocyanate	26447-40-5	10.0 %

4. FIRST AID MEASURES

FIRST AID - EYE CONTACT: Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

FIRST AID - SKIN CONTACT: Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

FIRST AID - INHALATION: Move person to fresh air. Restore and support continued breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, do not induce vomiting. Call a physician or poison control center immediately for further instructions. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

SPECIFIC HAZARDS POSSIBLY ARISING FROM THE CHEMICAL: During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion. Keep containers tightly closed. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). If water is used, fog nozzles are preferable.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Avoid contact. Avoid breathing vapors. Use self-contained breathing equipment.

ENVIRONMENTAL PRECAUTIONS: Do not contaminate bodies of water, waterways, or ditches, with chemical or used container.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Keep non-essential personnel a safe distance away from the spill area. Notify appropriate authorities if necessary. Avoid contact. Before attempting cleanup, refer to hazard caution information in other sections of the SDS form. Scoop spilled material into an appropriate container for proper disposal. (If necessary, use inert absorbent material to aid in containing the spill).

7. HANDLING AND STORAGE

HANDLING: Keep closure tight and container upright to prevent leakage. Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing of vapor or spray mists. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Use with adequate ventilation.

STORAGE: Store only in well-ventilated areas.Keep container closed when not in use.

INCOMPATIBILITY: Amines, acids, water, hydroxyl, or active hydrogen compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT EXPOSURE LIMIT

Chemical Name	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING	<u>Skin</u>
4,4'-Diphenylmethane diisocyanate	0.005 ppm	N.E.	N.E.	0.2 mg/m3 0.02 ppm	N.A.
Aromatic polyisocyanate	N.E.	N.E.	N.E.	N.E.	N.A.
Diphenylmethane diisocyanate	N.E.	N.E.	N.E.	0.2 mg/m3 0.02 ppm	N.A.

N.A. - Not Applicable, N.E. - Not Established, S - Skin Designation

Engineering controls: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

PERSONAL PROTECTION MEASURES/EQUIPMENT:

RESPIRATORY PROTECTION: This product contains isocyanates which have poor odor warning properties. If occupational exposure limits are exceeded, a NIOSH approved supplied-air respirator is required. Observe OSHA regulations (29CFR 1910.134) for respirator use.

SKIN PROTECTION: Use neoprene, nitrile, or rubber gloves to prevent skin contact.

EYE PROTECTION: Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse. Use long-sleeved shirt to minimize skin exposure.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using toilet facility. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical values, not to be used for specification purposes.

ODOR: APPEARANCE: PHYSICAL STATE: FLASH POINT:	No Tan Liquid ≥201 °F, 93 °C Setaflash Closed Cup	VAPOR PRESSURE: VAPOR DENSITY: LOWER EXPLOSIVE LIMIT: UPPER EXPLOSIVE LIMIT:	N.D. Heavier than Air Not Applicable Not Applicable
BOILING RANGE:	N.A.	EVAPORATION RATE:	Slower than n-butyl- acetate
AUTOIGNITION TEMPERATURE:	N.D.	DENSITY:	1.43 g/cm3 - 11.90 lb/gal
DECOMPOSITION TEMPERATURE:	N.D.	VISCOSITY, DYNAMIC:	>1.500 mPa.s @ 25 °C
ODOR THRESHOLD:	N.D.	VISCOSITY, KINEMATIC:	≥1,049 mm2/s @ 25 °C
SOLUBILITY IN H2O:	Insoluble	VOLATILE BY WEIGHT:	0.00 %
pH:	N.A.	VOLATILE BY VOLUME:	0.00 %
FREEZE POINT:	N.D.	VOC CALCULATED:	0 lb/gal, 0 g/l
COEFFICIENT OF WATER/OIL DISTRIBUTION:	N.D.		

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

STABILITY: Product is stable under normal storage conditions.

CONDITIONS TO AVOID: High temperatures.

INCOMPATIBILITY: Amines, acids, water, hydroxyl, or active hydrogen compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Monomeric isocyanate, traces of hydrogen cyanide, nitrogen dioxide, Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

EXPOSURE PATH: Refer to section 2 of this SDS.

SYMPTOMS: Refer to section 2 of this SDS.

TOXICITY MEASURES:

Chemical Name	LD50/LC50
4,4'-Diphenylmethane diisocyanate	Oral LD50: Rat 9,200 mg/kg
	Oral LD50: Rat 31,600 mg/kg
	Dermal LD50: rabbit > 5,000 mg/kg
	GHS LC50 (vapour): rat 11 mg/l /4 hGHS LC50 (dust and mist): rat 1.5
	mg/l /4 hInhalation LC50: Rat 369 mg/m3 /4 h
Aromatic polyisocyanate	Oral LD50: Rat 49 g/kg
	Dermal LD50: Rabbit > 9,400 mg/kg
	GHS LC50 (vapour): rat 11 mg/l /4 hGHS LC50 (dust and mist): rat 1.5
	mg/l /4 h
Diphenylmethane diisocyanate	Oral LD50: Rat > 7,400 mg/kg
	Dermal LD50: Rabbit > 6,200 mg/kg
	GHS LC50 (vapour): rat 11.0 mg/l /4 hGHS LC50 (dust and mist): rat 1.5

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mg/l /4 h

Germ cell mutagenicity: No classification proposed

Carcinogenicity: Category 2 - Suspected of causing cancer. Components contributing to classification: 4,4'-Diphenylmethane diisocyanate. Diphenylmethane diisocyanate.

Reproductive toxicity: No classification proposed

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Chemical Name	Ecotoxicity
4,4'-Diphenylmethane diisocyanate	<u>Fish:</u> Species > 1,000 mg/196 h <u>Invertebrates:</u> Daphnia magna > 1,000 mg/148 h
Aromatic polyisocyanate	N.D.
Diphenylmethane diisocyanate	N.D.

PERSISTENCE AND DEGRADABILITY: Not determined for this product.

BIOACCUMULATIVE: Not determined for this product.

MOBILITY IN SOIL: Not determined for this product.

OTHER ADVERSE EFFECTS: Not determined for this product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of contents/container in accordance with waste/disposal laws and regulations of your country or particular locality. Disposal should be done in accordance with Federal (40CFR Part 261), state and local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

14. TRANSPORT INFORMATION

This product is NOT REGULATED for non-bulk US DOT Road, IATA Cargo or IMDG shipments. For the most accurate shipping information, refer to your transportation/compliance department regarding changes in package size, mode of shipment or other regulatory descriptors.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS:

SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372.:

<u>Chemical Name</u> 4,4'-Diphenylmethane diisocyanate Aromatic polyisocyanate Diphenylmethane diisocyanate <u>CAS Number</u> 101-68-8 PROPRIETARY 26447-40-5
 Weight % Less Than

 20.0 %

 15.0 %

 10.0 %

TOXIC SUBSTANCES CONTROL ACT:

INVENTORY STATUS

The chemical substances in this product are on the TSCA Section 8 Inventory.

EXPORT NOTIFICATION

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: NONE

16. OTHER INFORMATION

Under HazCom 2012 it is optional to continue using the HMIS rating system. It is important to ensure employees have been trained to recognize the different numeric ratings associated with the HazCom 2012 and HMIS schemes.

HMIS RATINGS - HEALTH: 2* FLAMMABILITY: 1 PHYSICAL HAZARD: 0 * - Indicates a chronic hazard; see Section 2

Revision: New GHS SDS Format

Effective Date: 03/12/2015

DISCLAIMER

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.