Durable Component Teen

Titebond WW60

Manufacturer MSDS Number: 1311

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Titebond WW60

Manufacturer Name: Franklin International

Department: Construction Adhesives and Sealants

Address:

2020 Bruck Street
Columbus OH 43207

Contact: Franklin Technical Services
Emergency Phone (24 Hour): Franklin Security
(614) 445−1300

Chemtrec International: (703) 527−3887

Business Phone: (800) 877−4583

Business Fax: (614) 445−1493

Product Description:

Class: MDI

For information in North America, call: (800) 877−4583

Chemtrec: For emergencies in the US, call CHEMTREC: 800−424−9300

Manufacturer MSDS Revision Date: 8/3/01

CAS Number: None

Distributor Name: Durable Component Teen

Distributor Address:

PO Box 15118
St. Louis, MO 63110

Distributor Telephone: (800) 285−7965

General Use:

Reactive hot melt adhesive

HMIS

Health Hazard: 2

Fire Hazard: 1

Reactivity: 1

Personal Protection:

Product Codes:

7004

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Name	***CAS#***	***Percent***	
4,4'−Diphenylmethane diisocyanate	101−68−8	3.00%	

Hazardous: Yes

Other Exposure Guidelines:

OSHA PELs &ACGIH TLVs are listed in Section 8 where applicable.

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SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview:

POTENTIAL SKIN AND RESPIRATORY SENSITIZER. Contains isocyanate containing polymers. In its normal state, this product is a solid with little or no adverse effects. However, when the product is heated and/or liquified, MDI vapors and/or aerosols can be released. If spilled, absorb product while utilizing appropriate personal protective equipment and shovel into open container. Do not make pressure tight.

4,4'−Diphenylmethane diisocyanate:

Route of Exposure:

Ingestion: Yes
Inhalation: Yes
Skin: Yes
Eye: Yes

Potential Health Effects:

Eye Contact:

May cause slight eye irritation. Corneal injury is unlikely.

Skin Contact:

May cause skin irritation. Material may be absorbed through the skin leading to allergic reaction or respiratory sensitization. Material may stick to skin causing irritation upon removal. May stain skin.

Inhalation:

At room temperature this product is not expected to be an inhalation hazard. In normal usage, product is heated and may cause respiratory sensitization in susceptible individuals. MDI concentrations below exposure guidelines may cause allergic reactions in individuals already sensitized. Symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Effects may be delayed. Impaired lung function (decreased ventilation capacity) has been associated with overexposure to isocyanates.

Ingestion:

No hazard is expected in normal industrial use. Do not eat, drink, or smoke around chemicals.

Carcinogenicity:

OSHA Designation:

No

NTP Designation:

No

IARC Designation:

No

ACGIH Designation:

No

Reproductive Toxin Information:

In laboratory animals, MDI/polymeric MDI do not produce birth defects; other fetal effects occurred only at doses which were toxic to the mother.

Target Organs:

Eyes, skin, and respiratory tract.

Aggravation of Pre−Existing Conditions:

Respiratory conditions such as asthma.

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SECTION 4 : FIRST AID MEASURES

Eye Contact:

Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel. Material containing MDI may react with moisture of the eye forming thick material which may be difficult to wash from the eye.

Inhalation:

Remove to fresh air. If not breathing give mouth to mouth resuscitation. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Ingestion:

If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

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SECTION 5 : FIRE FIGHTING MEASURES

Explosion:

Explosive Range: Not Applicable

Flash Point:

> 350 deg F

Flammability Class:

(OSHA): IIIB

Extinguishing Media:

Carbon dioxide, dry chemical, or foam. For large scale fires, alcohol resistant foams are preferred if available. Water may be used as a blanket for fire extinguishment. If water is used, it should be used in a very large quantity. The reaction between water and isocyanate may be vigorous. If possible, contain fire run off water.

Hazardous Combustion Byproducts:

When burning, product will release carbon monoxide, carbon dioxide, nitrogen oxide fumes, and isocyanate vapors.

Fire Fighting Instructions:

Fire fighters should use positive pressure self−contained breathing apparatus and full protective clothing. Down−wind personnel must be evacuated.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal Precautions:

EMERGENCY MEASURES: Isolate hazard area. Keep unnecessary and unprotected personnel from entering area. Wear all appropriate personal protection equipment (PPE) (see Section 8).

Spill Cleanup Measures:

Spread absorbent over spill and shovel product/absorbent mixture into an approved container. If product has dried, scrape up and place in an approved container. Do not make pressure tight.

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SECTION 7 : HANDLING and STORAGE

Handling:

In accordance with good manufacturing practices, good ventilation of the processing area is recommended. Gloves are recommended as product is difficult to remove from effected areas if contact with skin occurs.

Storage:

Store in tightly closed containers to protect from atmospheric moisture. Replace outage with inert nitrogen. Store at temperature of 75 deg F to 105 deg F.

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Skin Protection Description:

Use impervious materials made of butyl or nitrile rubber where skin contact may occur.

Eye/Face Protection:

Use safety glasses.

Respiratory Protection:

Atmospheric levels should be maintained below the exposure guidelines. For emergency and other conditions where an exposure guidelines may be exceeded, use an approved positive−pressure self−contained breathing apparatus or supplied air respirator with an auxiliary self−contained air supply.

Other Protective:

GENERAL: Safety shower and eye wash station.

Exposure Limits:

The ACGIH TLV for 4,4'−diphenylmethane diisocyanate is .005 ppm.
The OSHA Ceiling for 4,4'−diphenylmethane diisocyanate is .02 ppm.
The OSHA Ceiling for 4,4'−diphenylmethane diisocyanate is 0.02 ppm.

Ingredient Guidelines

Ingredient: 4,4'−Diphenylmethane diisocyanate

Guideline Type:	OSHA PEL−STEL
Guideline Information:	Not Established
Guideline Type:	OSHA PEL−TWA
Guideline Information:	Not Established
Guideline Type:	ACGIH TLV−TWA
Guideline Information:	Not Established
Guideline Type:	ACGIH TLV−STEL
Guideline Information:	Not Established; Ceiling: Not Established

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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:

Form: Solid

Color:

White in solid state.

Odor:

Mild

pH:

Not Applicable

Boiling Point:

Not Applicable

Solubility:

In Water: Nil

Specific Gravity:

1.17

Evaporation Point:

Slower than n−Butyl Acetate

Percent Volatile:

Not Applicable

Volatile Organic Compound Content:

0 g/l

Flashpoint:

> 350 deg F

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SECTION 10 : STABILITY AND REACTIVITY

Chemical Stability:

This product is stable

Conditions to Avoid:

Stable when stored under normal conditions. Decomposition begins at 350 deg F (177 deg C).

Incompatibilities with Other Materials:

Water, acids, bases, alcohols, metal compounds, and surface active materials. Avoid water as it reacts to generate heat, CO2, and insoluble urea. Some reactions may be vigorous.

Hazardous Polymerization:

Hazardous polymerization will not occur

Hazardous Decomposition Products:

Excessive heating can produce isocyanate vapor, mist and other hazardous organic compounds.
Decomposition may occur with incompatible reactants, especially strong bases, water or temperatures over 320 deg F (160 deg C).

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SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicological Paragraph:

This formulation has not been tested for toxicological effects.

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SECTION 12 : ECOLOGICAL INFORMATION

Ecological Paragraph:

This formulation has not been tested for environmental effects.

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SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:

Disposal of this product must comply with all applicable federal, state and local regulations.
CONTAINER DISPOSAL: Disposal of this container should comply with all applicable federal, state and local regulations.

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SECTION 14 : TRANSPORT INFORMATION

Transportation Information:

Packaging may not be approved for shipping by air. Please contact Franklin International for further information.

UN Proper Shipping Name:

Nonhazardous

UN Class: Nonhaz

UN Number: None

UN Packaging Group: Not Applicable

IATA Class:

Nonhazardous

CGVS/GGVE/IMDG Class: Nonhazardous

ICAO Class:

Nonhazardous

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SECTION 15 : REGULATORY INFORMATION

4,4'−Diphenylmethane diisocyanate:

TSCA 8(b): Inventory Status

All components of this product are listed on the TSCA inventory except as exempted.

Section 313 Toxic Release Form:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:
Chemical Name: 4,4'−diphenylmethane diisocyanate
CAS No: 101−68−8
Percent: 3.00%

State:

PENNSYLVANIA:
Hazardous component required to be listed at 1% or greater:
Chemical Name: 4,4'−diphenylmethane diisocyanate
CAS No: 101−68−8

Non−hazardous components required to be listed at 3% or greater:
Chemical Name: Reacted urethane prepolymer, mixture

NEW JERSEY:
Chemical Name: Reacted urethane prepolymer, mixture
Chemical Name: 4,4'−diphenylmethane diisocyanate
CAS No: 101−68−8

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SECTION 16 : ADDITIONAL INFORMATION

HMIS:

Health Hazard: 2

Fire Hazard: 1

Reactivity: 1

MSDS Revision Date:

8/3/01

Disclaimer:

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