

MATERIAL SAFETY DATA SHEET

Glue Machinery Corporation™

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CFA1012

SECTION 1 – GENERAL INFORMATION

Product Name: CFA1012 10oz – 24 pk
Product Use: Reactive Hot Melt
CAS Number: None
Date Issued: 06/14/04
HMIS Hazard Rating: Health: 2 Fire: 1 Reactivity: 1

SECTION 11 – COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>Percent</u>
4, 4' diphenylmethane diisocyanate	101-68-8	1.00

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

SECTION 111 – HAZARD 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.

ROUTE OF ENTRY:

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

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.

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SECTION 111 – HAZARD IDENTIFICATION (continued)

INGESTION:

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

SKIN:

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.

EYE:

May cause slight eye irritation. Corneal injury is unlikely.

MEDICAL CONDITIONS AGGRIVATED BY EXPOSURE:

Respiratory conditions such as asthma.

CARCINOGENICITY:

IARC:	No
NTP:	No
OSHA:	No
ACGIH:	No

REPRODUCTIVE TOXICITY:

In laboratory animals, MID/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.

SECTION 1V – FIRST AID MEASURES

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.

SKIN:

Remove contaminated clothing immediately, wash skin with soap and water, and launder clothing before reuse. Contact physician if persistent irritation occurs.

EYE:

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.

SECTION V – FIRE FIGHTING MEASURES

Flammable Class (OSHA):	IIIB
Flash Point:	>350F
Explosive Range:	Not Applicable

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SECTION V – FIRE FIGHTING MEASURES (continued)

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 PRODUCTS:

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

FIRE FIGHTING PROCEDURES:

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

SECTION VI – ACCIDENTAL RELEASE MEASURES

CLEAN-UP:

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.

EMERGENCY MEASURES:

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

SECTION VII – 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 75F to 105F.

SECTION VIII – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
4, 4' -diphenylmethane diisocyanates	N/est	N/est	N/est	N/est	N/est

The ACGIH TLV for 4,4' - diphenylmethane diisocyanates is .005 ppm. The OSHA Ceiling for 4, 4' -diphenylmethane diisocyanates is .02 ppm.

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SECTION V111 – EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued)

ENGINEERING CONTROLS:

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

RESPIRATORY PROTECTION:

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

EYE PROTECTION:

Use safety glasses.

SKIN PROTECTION:

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

GENERAL:

Safety shower and eye wash station.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid
Appearance/Color:	White in solid state
Odor:	Mild
Solubility (in water):	N
pH value:	Not applicable
Boiling Range/Point:	Not applicable
Evaporation Rate:	
% Volatile:	0.0%
Specific Gravity:	1.16
VOC:	0 G/L

SECTION X – STABILITY AND REACTIVITY

Stability:	This product is stable
Hazardous Polymerization:	Hazardous polymerization will not occur

CONDITIONS TO AVOID:

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

INCOMPATIBILITY:

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 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 320F (160C).

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SECTION XI – TOXICOLOGICAL INFORMATION

This information has not been tested for toxicological effects.

SECTION XII – ECOLOGICAL INFORMATION

This information has not been tested for environmental effects.

SECTION XIII – 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.

SECTION XIV – TRANSPORT INFORMATION

UN Number: None
UN Pack Group: N/A
UN Class: N/A
ICAO/IATA Class: Non Hazardous (*see note)
Shipping Name: Non Hazardous

Packaging may not be approved for shipping by air. Please contact Glue Machinery Corporation for further information.

SECTION XV – REGULATORY INFORMATION

SARA TITLE III SECTION 313:

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:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent</u>
4,4' -ciphenylmethane diisocyanate	101-68-8	1.00

TSCA (TOXIC SUBSTANCES CONTROL ACT INVENTORY):

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

SECTION XVI – OTHER INFORMATION

DISCLAIMER:

While the information and recommendations set forth herein are believed to be accurate as of the data hereof, Glue Machinery Corporation makes no warranty, express or implied, with respect thereto and disclaims all liability from reliance thereon.