

24249

Barristo Enterprises, Inc.; SUREHOLD®**MATERIAL SAFETY DATA SHEET**Prepared in accordance with ISO 11014-1/ ANSI standard
Z400.1-2004Revision Date: 10/31/2011
MSDS No.: ND3541**1. PRODUCT AND COMPANY IDENTIFICATION****Product Name:** Python Glue, Product Code 352**Synonyms:** None**Use of the Substance/Preparation:** Adhesive**Supplier:**Barristo Enterprises, Inc.; dba SureHold
3717 N Ravenswood Avenue, Suite 243
Chicago, IL 60613
Tel: (773) 525-1801
Fax: (773) 525-1750
Website: www.surehold.com**Emergency Telephone Number:****2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW-
CAUTION:****· Classification of the substance or mixture**

GHS08 Health hazard

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H335+H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· Storage:

Store in a well-ventilated place. Keep container tightly closed. In closed containers, there may be a risk of pressure build up due to water contamination (Liberated CO2 Gas). Store locked up. Skin, eyes, inhalation.

Principle Routes of Exposure:**POTENTIAL HEALTH EFFECTS:****Eye Contact:**

Irritating to eyes.

Skin Contact:

Irritating to skin. May cause sensitization by skin contact.

Inhalation:

Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. May cause sensitization by inhalation.

Ingestion:

Not expected to be a route of entry under normal industrial use conditions.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	EINECS Number	Weight %	EU Classification
Methylenediphenyl diisocyanate (MDI) mixed isomers	26447-40-5	247-714-0	<25	H315; H319; H334; H317; H332; H335

4. FIRST AID MEASURES

General information: Symptoms of poisoning may even occur after several hours; therefore, medical observation is required for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek medical treatment in case of complaints.
 In case of respiratory failure or breathing irregularities, commence resuscitation or administer oxygen.
 In case of unconsciousness, place patient stably in side position for transportation.

· **After skin contact:** Instantly wash with water and soap and rinse thoroughly. Remove any contaminated clothing. If skin irritation persists, seek medical advice. Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** Do not induce vomiting; immediately call for medical help.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5. FIRE AND IGNITION INFORMATION

Flash Point > 200°C (> 392°F)

Explosion Limits in Air – Upper (%): Not determined.

Explosion Limits in Air – Lower (%): Not determined.

· **Extinguishing media**

· **Suitable extinguishing agents:** CO2, extinguishing powder or water spray. Fight larger fires with water spray.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet.

· **Special hazards arising from the substance or mixture**

Can be released in case of fire:

Nitrogen Oxides (NOx), Carbon Monoxide (CO), Hydrogen Cyanide (HCN)

· **Advice for firefighters**

· **Protective equipment:**

Wear breathing apparatus.

Wear full protective suit with self-contained breathing apparatus

See section 8.

· **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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6. ACCIDENTAL RELEASE MEASURES

· Personal precautions, protective equipment and emergency procedures

Don respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** Do not allow product to reach sewage system or bodies of water.

· **Methods and material for containment and cleaning up:**

Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Transfer to a waste container. Keep the material damp and exposed to the air in a secure area (CO₂-formation!) until completely solidified. The waste can then be disposed of on an approved landfill or a special refuse dump. Ensure adequate ventilation.

In the event of a large spill, treat spill area with decontamination solution. Preparation of decontamination solution: Prepare a mixture of 0.2 - 0.5% liquid detergent and 3 - 8% concentrated ammonium hydroxide in water (5 - 10% sodium carbonate may be substituted for the ammonium hydroxide).

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Handling:

· Precautions for safe handling

Ensure good ventilation/exhaust at the workplace.

Keep containers tightly sealed.

Prevent formation of aerosols.

Exhaust ventilation required during spraying or when material is being used at temperatures above 100 degrees F.

· **Information about protection against explosions and fires:** Pay attention to the general rules of internal fire prevention.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Recommended ideal storage temperature range: 59 - 77 degrees F. Product should not be stored below 40 degrees or above 110 degrees F.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:** Keep container tightly sealed.

· **Specific end use(s)** No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

26447-40-5 methylenediphenyl diisocyanate (MDI) Mixed Isomers

ACGIH TLV	Short-term value: 0.05 mg/m ³
NIOSH REL/CEILING	Short-term value: 0.2 mg/m ³
NIOSH REL/TWA	Short-term value: 0.05 mg/m ³
OSHA PEL	Short-term value: 0.2 mg/m ³

Additional information: The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

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Avoid contact with the eyes and skin.

Gases fumes and aerosols should not be inhaled.

- **Breathing equipment:** In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. The following glove types are recommended: neoprene, nitrile rubber or butyl rubber. Thin, disposable latex gloves should be avoided for repeated or long term handling of the material. Recommended thickness of the glove material: 5 - 6 mils. Selection of the glove material should be based on the consideration of penetration times, rates of diffusion and the degradation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

Body protection: Protective work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- **General Information**

- **Appearance**

· **Form:** Liquid

· **Color:** Light to dark amber

- **Odor:** Characteristic

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** Undetermined.

- **Flash point:** > 200°C (> 392°F)

- **Ignition temperature:**

· **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

· **Lower:** Not determined.

· **Upper:** Not determined.

- **Vapor pressure:** Not determined.

- **Density at 20°C (68°F):** 1.1 g/cm³ (9.18 lbs/gal)

- **Relative density:** Not determined.

- **Vapor density:** Not determined.

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- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** Insoluble, Reacts
- **Segregation coefficient (n-octanol/water):** Not determined.
- Viscosity:**
- Dynamic at 24°C (75°F):** 7000 mPas
- Kinematic:** Not determined.
- **Solvent content:**
- Organic solvents:** 0.0 %
- Solids content:** 100.0 %
- **Other information** No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity

- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
Exothermic reaction with amines and alcohols.
Reacts with water to liberate CO₂ gas which may build pressure in closed containers
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
By Fire and High Heat: Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen and traces of HCN.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

26447-40-5 methylenediphenyl diisocyanate (MDI) Mixed Isomers

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)
Inhalation	LC50 / 4 hr	2240 mg/l (rat)

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:**
Sensitization possible through inhalation.
Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful, Irritant

12. ECOLOGICAL INFORMATION

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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· **Additional ecological information:**

· **General notes:**

This product is not miscible with water. Reacts with water at the interface, producing CO₂ gas, and forming a solid and insoluble product, with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents), or by water-soluble solvents. Previous experience demonstrates that polyurea is inert and non-degradable.

Water hazard class 1 (self-assessment): slightly hazardous for water.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable

· **Other adverse effects** No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Disclaimer: Information in this section pertains to the product as shipped in its intended composition as described in Section 2 of this MSDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations.

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Un-cleaned packaging's:**

· **Recommendation:**

Disposal must be made according to official regulations.

Empty containers may only be disposed of after neutralizing any product remaining on the walls of the containers with a mixture of isopropanol, ammonia and water and removal of the warning labels. For preparation of decontamination solution, refer to section 6.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14. TRANSPORTATION INFORMATION

· **DOT regulations:**

· **Hazard class:** -

· **Hazardous substance:** Single containers less than 5,000 lbs are not regulated. Single containers with 5,000 lbs or more of methylenediphenyl diisocyanate are regarded as class 9, NA3082, PG III.

· **Land transport ADR/RID (cross-border):**

· **ADR/RID class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

· **UN "Model Regulation":** -

· **Special precautions for user** Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

15. REGULATORY INFORMATION

International Inventories

All components of this product are listed on or exempt from the following inventories:

- | | |
|-------|---|
| (yes) | - European Inventory of Existing Commercial Substances (EINECS) |
| (yes) | - United States Toxic Substances Control Act (TSCA) Inventory |

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U.S. Federal Regulations

TSCA 12(b) Export Notification: None.
 Clean Air Act amendments of 1990 (CAA, Section 11240: CFR 82): None.
 Clean Water Act (CWA, 40 CFR 116): None.
 Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, 40 CFR 302): None.

Superfund Amendments and Reauthorization Act, Title III (SARA):

SARA Section 302 (40 CFR 355) Extremely Hazardous Substances: None.
 SARA Section 313 (40 CFR 372) Toxics Release Inventory: None.

U.S. State Regulations

California Proposition 65: None.

16. OTHER INFORMATION

HMIS Rating

HMIS Index: *- chronic, 0 – Minimal, 1 – slight, 2- moderate, 3 – serious, 4 –severe
 Health: *2
 Flammability: 1
 Physical Hazard: 1

Additional Contacts:

Prepared by: Barristo Enterprises, Inc. – Safety, Health and Environmental Affairs
 Revision Date: 10/31/2011
 Previous Revision Date: 10/20/2008
 Reasons for Revision: Update to 16 part format.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

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