



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification			
Product Name	Purmelt QR- 2580	Effective Date	06/19/2002
Product Use	Polyurethane Hot Melt Adhesive	Supersedes	09/24/2001
Manufacturer	Henkel Adhesives 1345 Gasket Drive Elgin, IL 60120 (847) 608-0200	Transportation Emergency Chemtrec: 800 424-9300 Non-Transportation Emergency 847-608-0200	

Section 2. Composition and Information on Ingredients			
Name	CAS #	% by Weight	Exposure Limits
1) 4,4'-Diphenylmethane Diisocyanate	101-68-8	< 2.0	TWA: 0.005 (ppm) from ACGIH (TLV) CEIL: 0.02 (ppm) from OSHA (PEL)
2) Polyisocyanate	Proprietary	> 98.0	None Established

Section 3. Hazards Identification	
Physical State and Appearance	Off-white solid
Emergency Overview	WARNING! Exposure to diisocyanates may cause the following human health effects: skin irritation and allergic reactions, respiratory irritation, respiratory sensitization, and lung toxicity; some diisocyanates also may cause cancer. The likelihood that these effects will occur depends on a number of factors; among them, the level of exposure, frequency of exposure, part of the body exposed, and sensitivity of the exposed individual. Use only with adequate ventilation. Molten adhesive may cause severe burns. Moisture sensitive material.
Routes of Exposure	Eyes Skin Inhalation Ingestion.
Potential Acute Health Effects	<p>Eyes May cause eye irritation. Molten adhesive may cause severe burns.</p> <p>Skin May cause skin irritation. May cause skin sensitization. Animal tests have indicated that respiratory sensitization can result from skin contact with 4,4'-diphenylmethane diisocyanate. Molten adhesive may cause severe burns.</p> <p>Inhalation 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. Allergic conditions can occur in certain individuals with high sensitivity to isocyanates; this may result in asthma-like symptoms. May cause respiratory sensitization. May cause lung damage.</p> <p>Ingestion Harmful if swallowed.</p>
Potential Chronic Health Effects	May cause long-term lung damage. Chronic skin contact may cause dermatitis.

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Section 4. First Aid Measures

Eye Contact	Molten adhesive may cause severe burns. If eye contact occurs, immediately cool with water. Do not remove adhesive. Get medical attention.
Skin Contact	Molten adhesive may cause severe burns. In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Do not remove adhesive from skin. Get medical attention.
Inhalation	If vapors are inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	If ingested do not induce vomiting. Give victim one or two glasses of water or milk. Never give anything by mouth to an unconscious person. Seek medical attention.

Section 5. Fire Fighting Measures

Flammability of the Product	Non-combustible.
Auto-ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Fire Fighting Media and Instructions	Do not use water jet. Use dry chemical or carbon dioxide. Qualified persons wearing full fire-fighting suits and approved/certified self-contained breathing apparatus. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

Section 6. Accidental Release Measures

Spill and Leak	Place solid residues in a convenient waste disposal container. Discard according to local and regional regulatory requirements.
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Section 7. Handling and Storage

Handling	Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Contains moisture sensitive material. Store in a dry place.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	
Eyes	Safety glasses with side shields.
Body	Wear overalls or long sleeved shirt and long trousers
Respiratory	This product contains isocyanates which have poor warning properties. A MSHA/NIOSH approved respirator or equivalent is recommended.
Hands	Chemical and heat resistant gloves.
Feet	Chemical resistant footwear.

Section 9. Physical and Chemical Properties

Physical State and Appearance Off-white solid

Odor None

Color Off-white

pH Not applicable.

Melting/Freezing Point Not available.

Specific Gravity 1.2 (Water = 1)

Vapor Pressure Not available

Volatility Non-volatile.

VOC 0 g/l

Viscosity ~ 6,000 cps @ 250 F

Solubility Insoluble in water.

Dispersion Properties Not dispersed in water.

Boiling Point Not applicable

Physical Chemical Comments No additional remarks.

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Conditions of Instability Contamination with moisture.

Incompatibility with Various Substances Slightly reactive with moisture.
Slightly reactive to reactive with acids, alkalis.

Hazardous Decomposition Products Carbon monoxide, oxides of nitrogen, carbon dioxide, hydrogen cyanide, and/or toxic gases and particulate may be generated by thermal decomposition or combustion..

Hazardous Polymerization Will not occur.

Section 11. Toxicological Information

Toxicity to Animals No additional information.

Chronic Effects on Humans 4,4'-Diphenylmethane Diisocyanate is classified 3 (Not classifiable for human.) by IARC. May cause long-term lung damage. Chronic skin contact may cause dermatitis.

Other Toxic Effects on Humans No additional information.

Special Remarks on Toxicity to Animals No additional remark.

Special Remarks on Chronic Effects on Humans No additional remark.

Section 12. Ecological Information

Ecotoxicity	Not available.
Toxicity of the Products of Biodegradation	The products of degradation include carbon dioxide, carbon monoxide and nitrogen oxides.

Section 13. Disposal Considerations

Waste Information	Waste must be discarded in accordance with federal, state and local environmental control regulations.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Not a DOT regulated material (United States).
Proper Shipping Name	Not applicable.
UN/NA Identification Number	Not applicable
Packing group	Not applicable

Section 15. Regulatory Information

U.S. Federal Regulations	<p>TSCA 8(b) inventory: All components are listed on exempt.</p> <p>SARA 302/304/311/312 extremely hazardous substances: No products were found.</p> <p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 302/304/311/312 hazardous chemicals: No products were found.</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.</p> <p>SARA 313 toxic chemical notification and release reporting: 4,4'-Diphenylmethane Diisocyanate < 2.0%</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: No products were found.</p> <p>Clean air act (CAA) 112 accidental release prevention: 4,4'-Diphenylmethane Diisocyanate</p> <p>Clean air act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean air act (CAA) 112 regulated toxic substances: No products were found.</p>
State Regulations	<p>Rhode Island RTK hazardous substances: 4,4'-Diphenylmethane Diisocyanate</p> <p>Pennsylvania RTK: 4,4'-Diphenylmethane Diisocyanate</p> <p>Florida: 4,4'-Diphenylmethane Diisocyanate</p> <p>Minnesota: 4,4'-Diphenylmethane Diisocyanate</p> <p>Massachusetts RTK: 4,4'-Diphenylmethane Diisocyanate</p> <p>New Jersey spill list: 4,4'-Diphenylmethane Diisocyanate</p> <p>California prop. 65: No products were found.</p>
International Lists	No additional information.

Section 16. Other Information**Hazardous Material Information System (U.S.A.)**

Health	2
Fire Hazard	1
Reactivity	0
Personal Protection	

National Fire Protection Association (U.S.A.)

Validated by Henkel Adhesives Regulatory Department on 6/19/2002. | Verified by Henkel Adhesives Regulatory Department.

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[Transportation Emergency](#) Chemtrec: 800 424-9300**Notice to Reader**

To the best of our knowledge, the information contained herein is accurate. It is the users responsibility to determine suitability for the user's purpose and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. However, neither the above named supplier nor any of its subsidiaries assumes responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected to handling, storage, use, misuse or disposal of this product. If this product is used as a component in another product, this MSDS information may not be applicable.