# **Material Safety Data Sheet**





# Revision Date: 09/27/2007

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	1. C	HEMICAL PRO	DUCT AND COMPANY	IDENTIFICATION	
Product name: Product type: Company address: Henkel Corporation 1345 Gasket Drive Elgin, IL 60120	PURMELT QR 258 Industrial Hot Melt		<b>Item No.</b> : <b>Region:</b> <b>Contact Informa</b> Telephone:847.4 Transportation E		424.9300
	2	. COMPOSITIO	N/INFORMATION ON I	NGREDIENTS	
Hazardous compon Polyurethane Prepoly	<u>ents</u> ymer	<u>%</u> 97-99	ACGIH TLV None	OSHA PEL None	OTHER None
Methylene bisphenyl 101-68-8	isocyanate	1-3	0.005 ppm TWA	0.02 ppm Ceiling 0.2 mg/m³ Ceiling	None
		3. HA	ZARDS IDENTIFICATIO	DN	
		EM	ERGENCY OVERVIEW	•	
Physical state: Color: Odor: WARNING	Off-white None		HMIS: HEALTH: FLAMMABIL PHYSICAL H Personal Pro	IAZARD: otection: RNS.	2* 1 0 See Section 8
			AND RESPIRATORY T		
Relevant routes of Potential Health Eff		Skin, Eyes, Inhal	ation		
Inhalation: Skin contact		May cause sensi	thing of vapors above molten tization by inhalation and skin onged skin contact may resul	contact. Dusts from solid a	adhesive may cause irritation.
Eye contact: Ingestion:		dusts are genera	in eyes will cause severe and ited. s irritation and effects similar to		ause mechanical irritation if
Existing conditions exposure:	aggravated by		-existing skin or lung allergies s from exposure to this produ		of developing exaggerated
		See Section 11	for additional toxicological i	information.	

# **4. FIRST AID MEASURES**

Inhalation:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
Skin contact:	Thermal burn hazard from molten adhesive Cool melted product on skin with plenty of water. Do not remove solidified product. Cover affected areas with clean sheeting or gauze and seek immedate medical attention No attempt should be made to remove material from skin or to remove contaminated clothing as damaged skin can be easily torn
Eye contact:	If eye contact occurs with molten material immediately cool with water. Do not remove adhesive. Seek medical attention.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label.

### **5. FIRE-FIGHTING MEASURES** Flash point: Greater than 232°C (450°F) Autoignition temperature: Not determined Flammable/Explosive limits-lower %: Not applicable Flammable/Explosive limits-upper %: Not applicable Extinguishing media: Use extinguishing meaures appropriate to local circumstances and the surrounding environment. Water spray (fog), foam, dry chemical or carbon dioxide. Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Unusual fire or explosion hazards: None Hazardous combustion products: Oxides of carbon. Hydrogen cyanide. Isocyanate vapors Thermal decomposition can lead to release of irritating gases and vapors. Acrid smoke and fumes. 6. ACCIDENTAL RELEASE MEASURES **Environmental precautions:** No special environmental precautions required. Do not allow material to contaminate ground water system. **Clean-up methods:** If product is molten at time of spill, allow it to polymerize before scraping up. If product is solid at time of spill, sweep up. Avoid creating static electricity while sweeping as static discharge may occur. Store picked up product for either reuse or disposal. Ensure adequate ventilation. Keep in suitable and closed containers for disposal. 7. HANDLING AND STORAGE Handling: Avoid contact with molten material. Always be careful around molten material. Do not place wet or damp solid into melt tank. Follow suggested application temperature. Do not wear contact lenses. Storage: Do not store above 38°C (100°F). Incompatible products: No special restrictions on storage with other products.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering co	ntrols:	Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination. Heat only in areas with appropriate exhaust ventilation.
Respiratory pro	otection:	Respirator with combination filter for vapour/particulate. In case of insufficient ventilation wear suitable respiratory equipment. Observe OSHA regulations for respiratory use (29 CFR 1910.134).
Item No. :	/ IDH No. 515212	Product name: PURMELT QR 2580

Skin protection:

Eye/face protection:

Insulated gloves and long sleeved clothing are strongly recommended when working with molten adhesive.

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Do not wear contact lenses when handling this product.

#### See Section 2 for exposure limits.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor Threshold: Vapor pressure: pH: Boiling point/range: Melting point/range: Specific gravity: Vapor density: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content:

Solid Off-white None 0.4 ppm (4,4'-MDI) < 0.0001 mmHg @20°C (68° F) For MDI Not applicable Not available 120°C (250°F) 1.1 Not available Not applicable Insoluble. Reacts slowly with water to liberate carbon dioxide gas. Not available 0 g/L

#### **10. STABILITY AND REACTIVITY**

Stability:	Stable.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	None under normal use.
Incompatability:	Humid air and/or water will produce carbon dioxide which will pressurise the container.
Conditions to avoid:	Container can be pressurised by carbon dioxide due to reaction with humid air and/or water.
	11. TOXICOLOGICAL INFORMATION

Product toxicity data:

Toxicity data for monomeric and polymeric methylene bisphenyl isocyanate: Acute LD50 (dermal): More than > 10,000 mg/kg (rabbit). Acute LD50 (oral): > 10,000 mg/kg (rat).

#### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Polyurethane Prepolymer	No	No	No
Methylene bisphenyl isocyanate 101-68-8	No	No	No

#### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Polyurethane Prepolymer	No data
Methylene bisphenyl isocyanate 101-68-8	Allergen, Irritant, Respiratory

# **12. ECOLOGICAL INFORMATION**

**Ecological information:** 

For both polymeric and monomeric MDI: Aquatic toxicity - LC50 - 24 hour (static): greater than 500 mg/l for Daphnia magna, Limnea stagnalis, and Zebra fish (Brachydanio rerio).

# **13. DISPOSAL CONSIDERATIONS**

#### Information provided is for unused product only.

Recommended method of disposal:	This product is not a RCRA hazardous waste when discarded. Processing, use, or contamination of this product may change the hazard classification and waste management options. Dispose of according to Federal, State and local governmental regulations.
EPA hazardous waste number:	Not a RCRA hazardous waste.

# **14. TRANSPORT INFORMATION**

U.S. Department of Transportation Gro	und (49 CFR):
Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None
International Air Transportation (ICAO	
Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None
WaterTransportation (IMO/IMDG):	
Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None
Exceptions:	None
Marine pollutant:	None
	15. REGULATORY INFORMATION
United States Regulatory Information	
<u>United States Regulatory Information</u> TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. None.
TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification:	None.
TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification: CERCLA/SARA Section 302 EHS:	None. None above reporting de minimus.
TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification: CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312:	None. None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard
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TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification: CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	None. None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard Methylene bisphenyl isocyanate (CAS# 101-68-8).
TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification: CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	None. None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard Methylene bisphenyl isocyanate (CAS# 101-68-8).
TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification: CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313: California Proposition 65:	None. None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard Methylene bisphenyl isocyanate (CAS# 101-68-8).
TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification: CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313: California Proposition 65: <u>Canada Regulatory Information</u> CEPA DSL/NDSL Status:	None. None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard Methylene bisphenyl isocyanate (CAS# 101-68-8). No California Proposition 65 listed chemicals are known to be present. All components are listed on or are exempt from listing on the Domestic Substances List. D.2.A, D.2.B
TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification: CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313: California Proposition 65: <u>Canada Regulatory Information</u> CEPA DSL/NDSL Status:	None. None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard Methylene bisphenyl isocyanate (CAS# 101-68-8). No California Proposition 65 listed chemicals are known to be present.

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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