Material Safety Data Sheet



Revision Number: 002.2 Issue date: 04/13/2010

1. PRODUCT AND COMPANY IDENTIFICATION

TECHNOMELT PUR 513C known as Product name:

PURMELT QR 513C

Product type: Polyurethane adhesive

> Region: **United States**

Company address: **Contact information:** Henkel Corporation Telephone: 860.571.5100

One Henkel Way Poison Control Center: 1-877-671-4608. For transportation

Rocky Hill, Connecticut 06067 emergencies, CHEMTREC: 1-800-424-9300.

Internet: www.henkelna.com

IDH number:

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Solid **HEALTH:** *2 Off white FLAMMABILITY: Color: 1 PHYSICAL HAZARD: Odor: None O

Personal Protection: See MSDS Section 8

515272

WARNING: MOLTEN ADHESIVE MAY CAUSE SEVERE BURNS.

> MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.

Eyes, Skin, Inhalation Relevant routes of exposure:

Potential Health Effects

Inhalation: Methylene bisphenyl isocyanate (MDI) vapors or mist at concentrations above the TLV can

irritate the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose. sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Repeated exposure may lead to respiratory sensitization reactions,

producing an asthma-like condition.

Molten adhesive may cause severe burns. May cause skin irritation. Repeated or prolonged Skin contact:

skin contact may result in allergic sensitization.

Can cause mechanical irritation if dusts are generated. Liquid or vapor can cause moderate to Eve contact:

severe irritation. Molten adhesive in eyes will cause severe and permanant damage.

Ingestion: Ingestion causes irritation and effects similar to inhalation.

Existing conditions aggravated by

exposure:

IDH number: 515272

Pre-existing skin or lung allergies may increase the chance of developing exaggerated allergic

symptoms from exposure to this product.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

See Section 11 for additional toxicological information.

COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Methylenebis(phenylisocyanate)	101-68-8	1 - 5

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: Molten adhesive may cause severe burns. Cool melted product on skin with

plenty of water. Do not remove solidified product. Cover affected areas with clean sheeting or gauze and seek immediate 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 material is ingested, immediately contact a physician or poison control

center.

5. FIRE FIGHTING MEASURES

Flash point: > 180 °C (> 356°F)

Autoignition temperature: Not determined

Flammable/Explosive limits - lower: Not applicable

Flammable/Explosive limits - upper: Not applicable

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide. Use extinguishing

measures appropriate to local circumstances and the surrounding

environment.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: None

IDH number: 515272

Hazardous combustion products: Thermal decomposition can lead to release of irritating gases and vapors.

Oxides of carbon. Hydrogen cyanide. Isocyanate vapors.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow material to contaminate ground water system.

Ensure adequate ventilation. Wear protective clothing, gloves and safety Clean-up methods:

glasses. Spilled material will solidify. Scrape up spilled material and place in a

closed container for disposal.

7. HANDLING AND STORAGE

Handling: Avoid skin contact with molten resins. Follow suggested application

temperature. Do not place wet or damp solid into melt tank.

Storage: For safe storage, store at or below 38 °C (100.4 °F)

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

Page 2 of 5

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Methylenebis(phenylisocyanate)	0.005 ppm TWA	0.02 ppm (0.2 mg/m3) Ceiling1	None	None

Engineering controls: 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. Do not make the container seal

gastight.

Respiratory protection: A positive pressure, supplied-air respirator or a self-contained breathing

apparatus is recommended when: airborne concentrations of isocyanate are known to exceed 0.005 ppm; operations are performed in a confined space or area with limited ventilation; material is heated or sprayed. Concentrations greater than the TLV can occur when MDI is sprayed, heated or used in a poorly ventilated area. Observe OSHA regulations for respiratory use (29 CFR

1910.134).

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists.

Skin protection: Insulated gloves and long sleeved clothing are strongly recommended when

working with molten adhesive.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:SolidColor:Off whiteOdor:NoneOdor threshold:Not availablepH:Not applicable

Vapor pressure: < 0.0001 mm hg (20 °C (68°F)) For MDI

Boiling point/range: Not available

Melting point/ range: 65 °C (149°F) (Softening Point)

Specific gravity: 1.2

Vapor density:

Flash point:

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Not determined

Not applicable

Not determined

Not applicable

Solubility in water: Not soluble. Reacts slowly with water to liberate carbon dioxide gas.

Partition coefficient (n-octanol/water): Not determined VOC content: Not determined 0 %; 0 g/l

10. STABILITY AND REACTIVITY

Stability: Stable

IDH number: 515272

Hazardous reactions: Will not occur.

Hazardous decomposition products: None under normal use.

Incompatible materials: Humid air and/or water will produce carbon dioxide which will pressurize the

container

Conditions to avoid: Container can be pressurised by carbon dioxide due to reaction with humid air

and/or water.

11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: LD50 (rat) > 5,000 mg/kg

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Methylenebis(phenylisocyanate)	No	No	No

Hazardous components	Health Effects/Target Organs
Methylenebis(phenylisocyanate)	Irritant, Respiratory, Allergen

12. ECOLOGICAL INFORMATION

Ecological information: Not available

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.

Hazardous waste number:Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated Hazard class or division: None

Identification number:

Packing group:

None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name:Not regulatedHazard class or division:NoneIdentification number:NonePacking group:NoneExceptions:None

15. REGULATORY INFORMATION

United States Regulatory Information

IDH number: 515272

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

inventory.

TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA 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 (40

CFR 372). Methylenebis(phenylisocyanate) (CAS# 101-68-8).

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Product name: TECHNOMELT PUR 513C known as PURMELT QR 513C

Page 4 of 5

Canada Regulatory Information

IDH number: 515272

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List. WHMIS hazard class: D.2.A, D.2.B

16. OTHER INFORMATION

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

Prepared by: Ed Waldynski, Regulatory Affairs Specialist

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.