

Revision Date: 06/22/2005

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Macromelt OM 657

Product type: Industrial Hot Melt Adhesive

Company address: Henkel Corporation
15051 East Don Julian Road
Industry, California 91746

Contact information: Telephone: 626.968.6511
Emergency Telephone: 860.571.5100
Internet: www.electronics.henkel.us

Item No.: OM0657

Region: United States

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components				
Polyamide resin Proprietary	60-100 %	ACGIH TLV None	OSHA PEL None	OTHER None
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	1-5	None	None	None
Carbon black 1333-86-4	0.1-1	3.5 mg/m³ TWA	3.5 mg/m³ TWA	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMS:

HEALTH: 1*

FLAMMABILITY: 1

PHYSICAL HAZARD: 0

Personal Protection: See Section 8

CAUTION: MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation: Continuous breathing of vapors above molten adhesive may irritate mucous membranes.
Skin contact: May cause skin irritation. Molten adhesive may cause severe burns.
Eye contact: May cause irritation. Molten adhesive may cause severe burns.
Ingestion: May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Molten adhesive may cause severe burns.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.
Skin contact:	Cool skin rapidly with cold water after contact with molten material. Cool melted product on skin with plenty of water. Do not remove solidified product. Remove contaminated clothing and shoes. Get medical attention.
Eye contact:	If eye contact occurs with molten material immediately cool with water. Do not remove adhesive. Seek medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point:	Not applicable
Autoignition temperature:	Not applicable
Flammable/Explosive limits-lower %:	Not applicable
Flammable/Explosive limits-upper %:	Not applicable
Extinguishing media:	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. Oxides of nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.

Clean-up methods:

Remove all sources of ignition. Ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. 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.

7. HANDLING AND STORAGE

Handling:

Avoid generating static electricity while handling. Use proper grounding procedures when handling near flammable or explosive materials. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Avoid breathing vapor. Keep container closed. Wash thoroughly after handling.

Storage:

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

Incompatible products:

Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (626) 968-6511

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:

Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

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Literature Referenced Target Organ & Other Health Effects

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Polyamide resin	No	No	No
Proprietary			
Benzaniline, N-phenyl-, reaction products with 2,4,4-trimethylpentene	No	No	No
684 11-46-1			
Carbon black	No	Group 2B	Yes
1333-86-4			

Carcinogen Status

11. TOXICOLOGICAL INFORMATION

Stability: Stable at normal conditions

Hazardous polymerization: None under normal processing

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen.

Incompatibility: Do not allow molten material to contact water or liquids as this can cause violent eruptions, splatter hot material, or ignite flammable material.

Conditions to avoid: Storage with incompatible materials. Heat, flames, sparks and other sources of ignition.

10. STABILITY AND REACTIVITY

Physical state: Solid

Color: Black

Odor: Odorless

Vapor pressure: Not applicable

pH: Not applicable

Boiling point/range: Not available

Melting point/range: 155°C (311°F) (Softening Point)

Specific gravity: 0.98

Vapor density: Not available

Evaporation rate: Not available

Solubility in water: Negligible

Partition coefficient (n-octanol/water): Not available

VOC content: 0.0%, 0.0 grams/liter (calculated)

9. PHYSICAL AND CHEMICAL PROPERTIES

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

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

Eye/face protection: Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

Hazardous components		Health Effects/Target Organs
	Polyamide resin Proprietary	No data
Benzenamine, N-phenyl, reaction products with 2,4,4-trimethylpentene	68411-46-1	No Target Organs
	Carbon black 1333-86-4	Respiratory, Some evidence of carcinogenicity

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

Proper shipping name: Not regulated

Hazard class or division: None

Identification number: None

Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated

Hazard class or division: None

Identification number: None

Packing group: None

WaterTransportation (IMO/MDG):

Proper shipping name: Not regulated

Hazard class or division: None

Identification number: None

Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

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.

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313:

None.

Immediate Health Hazard, Delayed Health Hazard

None.

California Proposition 65:

This product contains a chemical known to the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: WHMIS hazard class:

Not fully investigated.

D.2.A, D.2.B

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16. OTHER INFORMATION

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

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