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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: QMI 536 (QM0536)
Product type: Die Attach Non-conductive adhesive
Company address:
Henkel Corporation
15051 East Don Julian Road
Industry, California 91746

Item No.: QMI 536
Region: United States
Contact Information:
Telephone: 626.968.6511
Emergency Telephone: 860.571.5100
Internet: www.electronics.henkel.us

Contains one or more components for which a Toxic Substances Control Act Low Volume Exemption (LVE) applies. Quantities of import and/or manufacturer of the component within this product are limited to the LVE submittor.

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Poly(tetrafluoroethylene) 9002-84-0	30-60	None	None	AEL (DuPont): 10 mg/m ³ , 8 Hr TWA, total dust; 5mg/m ³ , 8 hr. TWA respirable dust None
Bismaleimide resin Proprietary	30-60	None	None	None
Synthetic resin Proprietary	10-30	None	None	None
Additive Proprietary	5-10	None	None	None
Substituted silane Proprietary	1-5	None	None	None
Initiator Proprietary	1-5	None	None	None
Initiator Proprietary	1-5	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Paste
Color: White
Odor: Mild

HEALTH: 3
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING: CAUSES EYE AND SKIN IRRITATION.
MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE RESPIRATORY TRACT IRRITATION.

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

Potential Health Effects

Inhalation: May cause respiratory tract irritation. May cause central nervous system effects with nausea, dizziness and headache. Coughing. Shortness of breath.
Skin contact: Severe skin irritation. Repeated or prolonged exposure may cause skin burns. Pain and discomfort. Redness. Rash.
Eye contact: Severe eye irritation. Prolonged contact may cause eye burns and corneal injury. Pain and discomfort. Blurred vision. Stinging. Excess tearing. Redness.
Ingestion: May cause burns of mouth and throat if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

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: Remove contaminated clothing and shoes. Immediately flush skin with plenty of water (using soap, if available). Get medical attention if symptoms develop and persist. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Give a conscious person several glasses of water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms develop and persist.

5. FIRE-FIGHTING MEASURES

Flash point: Greater than 93°C (200°F)

Autoignition temperature: Not available

Flammable/Explosive limits-lower %: Not available

Flammable/Explosive limits-upper %: Not available

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. Use water spray to keep fire exposed containers cool.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Oxides of silicon. Hydrogen fluoride. Carbonyl fluoride. Acids. Alcohols. Butadiene. Hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

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

Clean-up methods: Ensure adequate ventilation. Wear protective clothing, gloves and safety glasses. Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling:	Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Do not taste or swallow. 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.
Respiratory protection:	If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH.
Skin protection:	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Neoprene, Butyl-rubber, or nitrile-rubber gloves.
Eye/face protection:	Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	White
Odor:	Mild
Vapor pressure:	Nil
pH:	Not applicable
Boiling point/range:	Not available
Melting point/range:	Not available
Specific gravity:	1.26
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not available
VOC content:	Not available

10. STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Oxides of silicon. Hydrogen fluoride. Carbonyl fluoride. Acids. Alcohols. Butadiene. Hydrocarbons.
Incompatibility:	Strong acids. Strong bases. Alkalis. Oxidizing agents. Peroxides. Metals. Reducing agents.
Conditions to avoid:	Storage with incompatible materials. Oxidizing conditions. Heat, flames, sparks and other sources of ignition. Exposure to moisture.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Poly(tetrafluoroethylene) 9002-84-0	No	No	No
Bismaleimide resin Proprietary	No	No	No
Synthetic resin Proprietary	No	No	No
Additive Proprietary	No	No	No
Substituted silane Proprietary	No	No	No
Initiator Proprietary	No	No	No
Initiator Proprietary	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Poly(tetrafluoroethylene) 9002-84-0	No Target Organs
Bismaleimide resin Proprietary	No data
Synthetic resin Proprietary	No Target Organs
Additive Proprietary	No Records
Substituted silane Proprietary	Allergen, Irritant
Initiator Proprietary	No data
Initiator Proprietary	No Records

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with Federal, State and local 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 (Up to 10 ml when shipped as originally packaged by Henkel only)
Hazard class or division: None
Identification number: None
Packing group: None

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International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated (Up to 10 ml when shipped as originally packaged by Henkel only)
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG):

Proper shipping name: Not regulated (Up to 10 ml when shipped as originally packaged by Henkel only)
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: Contains one or more component(s) for which a Toxic Substances Control Act Low Volume Exemption (LVE) applies. Quantities of import and/or manufacturer of the component within this product are limited to the LVE submitter.
TSCA 12 (b) Export Notification: None.
CERCLA/SARA Section 302 EHS: None.
CERCLA/SARA Section 311/312: Immediate Health Hazard
CERCLA/SARA 313: None.
California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances list. Contains one or more components for which a Schedule I has been filed. All other components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class: D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 3

Prepared by: Melissa Frisby, Product Safety and Regulatory Affairs Specialist
For Safety and Regulatory Information contact:
Product Safety and Regulatory Affairs,
Rocky Hill, CT.
860-571-5204

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