



Revision Number: 002.1

Issue date: 04/30/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DORUS MS 8610
Product type: Hotmelt adhesive

IDH number: 514477

Region: United States

Company address:
 Henkel Corporation
 1345 Gasket Drive
 Elgin, IL 60120

Contact information:
 Telephone: 847.468.9200
 Transportation Emergency Telephone: 800.424.9300
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Solid
Color: Amber
Odor: Resinous

HMIS:

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

WARNING: STATIC CHARGES GENERATED BY EMPTYING PACKAGE IN OR NEAR FLAMMABLE VAPORS MAY CAUSE IGNITION. MOLTEN ADHESIVE MAY CAUSE SEVERE BURNS. VAPORS ABOVE MOLTEN ADHESIVE MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Molten adhesive., Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Continuous breathing of vapors above molten adhesive may irritate mucous membranes. Dusts from solid adhesive may cause irritation.
Skin contact: Molten adhesive may cause severe burns.
Eye contact: Can cause mechanical irritation if dusts are generated. Molten adhesive in eyes will cause severe and permanent damage.
Ingestion: Not expected to be harmful by ingestion.

Existing conditions aggravated by exposure: None known

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Colophony glycerol ester	8050-31-5	30 - 60
Ethylene-vinyl acetate copolymer	Proprietary	30 - 60
Pentaerythritol ester of rosin	Proprietary	5 - 10
Hydrocarbon waxes (petroleum), hydrotreated microcrystalline	64742-60-5	5 - 10
Vinyl acetate	108-05-4	0.1 - 1

4. FIRST AID MEASURES

Inhalation:	If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
Skin contact:	No attempt should be made to remove material from skin or to remove contaminated clothing as damaged skin can be easily torn. Cover affected areas with clean sheeting or gauze and seek immediate medical attention. Cool melted product on skin with plenty of water. Do not remove solidified product. Molten adhesive may cause severe burns.
Eye contact:	If eye contact occurs with molten material immediately cool with water. Do not remove adhesive. Seek medical attention.
Ingestion:	If symptoms develop and persist, get medical attention. Ingestion of solid adhesive is not expected to be hazardous.

5. FIRE FIGHTING MEASURES

Flash point:	> 232 °C (> 449.6 °F)
Autoignition temperature:	Not applicable
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Extinguishing media:	Use extinguishing measures appropriate to local circumstances and the surrounding environment. Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	None
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Oxides of carbon. Acrid smoke and fumes.

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. No special environmental precautions required.
Clean-up methods:	Health injuries are not known or expected under normal use. Sweep up spilled material. Avoid creating dust.

7. HANDLING AND STORAGE

Handling:	Follow suggested application temperature. Do not wear contact lenses. Do not place wet or damp solid into melt tank. Always be careful around molten material. Avoid skin contact with molten resins.
Storage:	For safe storage, store between 0 °C (32°F) and 38 °C (100.4 °F)

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

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
Colophony glycerol ester	None	None	None	None
Ethylene-vinyl acetate copolymer	None	None	None	None
Pentaerythritol ester of rosin	None	None	None	None
Hydrocarbon waxes (petroleum), hydrotreated microcrystalline	None	None	None	None
Vinyl acetate	10 ppm TWA 15 ppm STEL	None	None	None

Engineering controls:	Ventilation hoods and fans required when working with organic solvents or in hot melt applications. Heat only in areas with appropriate exhaust ventilation.
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment. Respirator with combination filter for vapor/particulate.
Eye/face protection:	Do not wear contact lenses. Full face protection should be used if the potential for splashing or spraying of product exists. Safety goggles or safety glasses with side shields.
Skin protection:	Insulated gloves and long sleeved clothing are strongly recommended when working with molten adhesive.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Color:	Amber
Odor:	Resinous
Odor threshold:	Not available
pH:	Not available
Vapor pressure:	Not applicable
Boiling point/range:	Not applicable
Melting point/ range:	88 °C (190.4 °F) (Softening Point)
Specific gravity:	0.9 - 1.0
Vapor density:	Not available
Flash point:	> 232 °C (> 449.6 °F)
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Autoignition temperature:	Not applicable
Evaporation rate:	Not applicable
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not available
VOC content:	0 %; 0 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide.
Incompatible materials:	Avoid heating above 400°F.
Conditions to avoid:	Prolonged heating at temperatures above 200 °C.

11. TOXICOLOGICAL INFORMATION

Product toxicity data:	Henkel is not aware of any toxicity data on the specific mixture of chemical components contained in this product.
-------------------------------	--

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Colophony glycerol ester	No	No	No
Ethylene-vinyl acetate copolymer	No	No	No
Pentaerythritol ester of rosin	No	No	No
Hydrocarbon waxes (petroleum), hydrotreated microcrystalline	No	No	No
Vinyl acetate	No	Group 2B	No

Hazardous components	Health Effects/Target Organs
Colophony glycerol ester	Allergen
Ethylene-vinyl acetate copolymer	No Data
Pentaerythritol ester of rosin	Irritant
Hydrocarbon waxes (petroleum), hydrotreated microcrystalline	No Data
Vinyl acetate	Central nervous system, Irritant, Mutagen, Some evidence of carcinogenicity

12. ECOLOGICAL INFORMATION

Ecological information:

No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, ground water, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

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: 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

Water Transportation (IMO/IMDG)

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

15. REGULATORY INFORMATION

United States Regulatory Information

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). Vinyl acetate (CAS# 108-05-4).
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

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: Lou Fabrizio, 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.