



Revision Number: 003.0

Issue date: 01/06/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: TECHNOMELT EM 362 known as Euromelt 362
Product type: Hotmelt adhesive
Company address: Henkel Corporation, One Henkel Way, Rocky Hill, Connecticut 06067
IDH number: 103259
Region: United States
Contact information: Telephone: 860.571.5100, For Chemical Emergency: Call CHEMTREC at 800.424.9300, Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

| | | | |
|------------------------|-----------|-----------------------------|--------------------|
| Physical state: | Solid | HEALTH: | 2 |
| Color: | Off white | FLAMMABILITY: | 1 |
| Odor: | Resinous | PHYSICAL HAZARD: | 0 |
| | | Personal Protection: | See MSDS Section 8 |

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

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 | % |
|--|-------------|---------|
| Pentaerythritol ester of rosin | Proprietary | 30 - 60 |
| Resin acids and Rosin acids, esters with glycerol | 8050-31-5 | 10 - 30 |
| White mineral oil (petroleum), highly refined | 8042-47-5 | 10 - 30 |
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | 10 - 30 |
| Isoprene-Styrene copolymer | 25038-32-8 | 5 - 10 |
| Hydrocarbon Synthetic Rubber | Proprietary | 5 - 10 |
| Ethylene-vinyl acetate copolymer | Proprietary | 1 - 5 |
| Polyethylene | Proprietary | 1 - 5 |

4. FIRST AID MEASURES

| | |
|----------------------|---|
| Inhalation: | If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. |
| Skin contact: | Cool melted product on skin with plenty of water. Do not remove solidified product. 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. 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: | Ingestion of solid adhesive is not expected to be hazardous. If symptoms develop and persist, get medical attention. |

5. FIRE FIGHTING MEASURES

| | |
|--|---|
| Flash point: | No flash point up to 200 °C |
| 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. Use extinguishing measures appropriate to local circumstances and the surrounding environment. |
| 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: | No special environmental precautions required. Do not allow material to contaminate ground water system. |
| Clean-up methods: | Sweep up spilled material. Avoid creating dust. Health injuries are not known or expected under normal use. |

7. HANDLING AND STORAGE

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

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

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 |
|--|---|---|-----------|--|
| Pentaerythritol ester of rosin | None | None | None | None |
| Resin acids and Rosin acids, esters with glycerol | None | None | None | None |
| White mineral oil (petroleum), highly refined | 5 mg/m3 TWA Inhalable fraction. | 5 mg/m3 TWA mist 5 mg/m3 PEL Mist. | None | None |
| Distillates (petroleum), hydrotreated heavy naphthenic | 5 mg/m3 TWA mist 10 mg/m3 STEL mist 5 mg/m3 TWA Inhalable fraction. | 5 mg/m3 TWA mist 500 ppm (2,000 mg/m3) PEL 5 mg/m3 PEL Mist. | None | None |
| Isoprene-Styrene copolymer | None | None | None | 0.6 mg/m3 TWA Rubber Fume 6 mg/m3 TWARubber Process Dust |
| Hydrocarbon Synthetic Rubber | None | None | None | None |
| Ethylene-vinyl acetate copolymer | None | None | None | None |
| Polyethylene | None | None | None | None |

Engineering controls:

Heat only in areas with appropriate exhaust ventilation. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.

Respiratory protection:

Respirator with combination filter for vapor/particulate. In case of insufficient ventilation wear suitable respiratory equipment.

Eyeface protection:

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

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: | Off white |
| Odor: | Resinous |
| Odor threshold: | Not available. |
| pH: | Not available. |
| Vapor pressure: | Not applicable |
| Boiling point/range: | Not available. |
| Melting point/ range: | 112.2 °C (234°F) (Softening Point) |
| Vapor density: | Not available. |
| Flash point: | No flash point up to 200 °C |
| Flammable/Explosive limits - lower: | Not applicable |
| Flammable/Explosive limits - upper: | Not applicable |
| Autoignition temperature: | Not applicable |
| Evaporation rate: | Not applicable |
| Solubility in water: | Not available. |
| 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) |
|--|----------------|-----------------|--|
| Pentaerythritol ester of rosin | No | No | No |
| Resin acids and Rosin acids, esters with glycerol | No | No | No |
| White mineral oil (petroleum), highly refined | No | No | No |
| Distillates (petroleum), hydrotreated heavy naphthenic | No | No | No |
| Isoprene-Styrene copolymer | No | No | No |
| Hydrocarbon Synthetic Rubber | No | No | No |
| Ethylene-vinyl acetate copolymer | No | No | No |
| Polyethylene | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|--|------------------------------|
| Pentaerythritol ester of rosin | Irritant |
| Resin acids and Rosin acids, esters with glycerol | Allergen |
| White mineral oil (petroleum), highly refined | Irritant |
| Distillates (petroleum), hydrotreated heavy naphthenic | Irritant |
| Isoprene-Styrene copolymer | No Target Organs |
| Hydrocarbon Synthetic Rubber | No Target Organs |
| Ethylene-vinyl acetate copolymer | No Target Organs |
| Polyethylene | No Target Organs |

12. ECOLOGICAL INFORMATION

Ecological information: Do not empty into drains, soil or bodies of water.

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 minimis
CERCLA/SARA Section 302 EHS: None above reporting de minimis
CERCLA/SARA Section 311/312: Immediate Health
CERCLA/SARA Section 313: None above reporting de minimis
California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian 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: New Material Safety Data Sheet format.

Prepared by: Jennifer Altman, Sr. Regulatory Affairs Specialist Telephone: (248) 589-4624, e-mail: jennifer.altman@us.henkel.com

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel 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 Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.