



Revision Number: 003.1

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**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Product name:</b>	TECHNOMELT GA 416C COOL KNOWN AS TECHNOMELT COOL 680C	<b>IDH number:</b>	1355669
<b>Product type:</b>	Hotmelt adhesive	<b>Region:</b>	United States
<b>Restriction of Use:</b>	None identified	<b>Contact information:</b>	
<b>Company address:</b>	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	Telephone:	(860) 571-5100
		MEDICAL EMERGENCY Phone:	Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711
		TRANSPORT EMERGENCY Phone:	CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887
		Internet:	www.henkelna.com

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

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

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A

**PICTOGRAM(S)**



**Precautionary Statements**

<b>Prevention:</b>	Wash thoroughly after handling. Wear eye and face protection. Wear protective gloves.
<b>Response:</b>	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.
<b>Storage:</b>	Not prescribed
<b>Disposal:</b>	Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous Component(s)	CAS Number	Percentage*
Ethylene-Vinyl acetate copolymer	24937-78-8	30 - 60
Paraffin waxes (petroleum), hydrotreated	64742-51-4	10 - 30
Resin acids and Rosin acids, esters with pentaerythritol	8050-26-8	10 - 30
Phenol, polymer with 2,6,6-trimethylbicyclo[3.1.1]hept-2-ene	25359-84-6	5 - 10
N,N-Ethylene bis(oleamide)	110-31-6	0.1 - 1
Pentaerythritol tetrakis[(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	6683-19-8	0.1 - 1
tris(2,4-ditert-butylphenyl) phosphite	31570-04-4	0.1 - 1
Vinyl acetate	108-05-4	0.1 - 1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	0.1 - 1
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	0 - 0.1
Distillates (petroleum), solvent-refined light paraffinic, contains < 3% DMSO	64741-89-5	0 - 0.1
Antioxidant~		0 - 0.1
Butyl hydroxytoluene	128-37-0	0 - 0.1
2,6-Di-tert-butyl-4-ethylphenol	4130-42-1	0 - 0.1
Xylenes	1330-20-7	0 - 0.1
Diol ester~		0 - 0.1
Synthetic wax~		0 - 0.1

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Molten adhesive may cause severe burns. 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.
<b>Eye contact:</b>	If eye contact occurs with molten material immediately cool with water. Do not remove adhesive. Seek medical attention.
<b>Ingestion:</b>	Ingestion of solid adhesive is not expected to be hazardous. If symptoms develop and persist, get medical attention.
<b>Symptoms:</b>	See Section 11.

#### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Use extinguishing measures appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide.
<b>Special firefighting procedures:</b>	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). Wear full protective clothing.
<b>Unusual fire or explosion hazards:</b>	None

**Hazardous combustion products:**

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## 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:**

Spilled material will solidify. Scrape up spilled material and place in a closed container for disposal.

## 7. HANDLING AND STORAGE

**Handling:**

Always be careful around molten material. Avoid skin contact with molten resins. Follow suggested application temperature. Do not wear contact lenses. At elevated temperatures, irritating fumes may be emitted. Provide adequate ventilation.

**Storage:**

For safe storage, store between 0.0 °C (32°F) and 38.0 °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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethylene-Vinyl acetate copolymer	None	None	None	None
Paraffin waxes (petroleum), hydrotreated	None	None	None	None
Resin acids and Rosin acids, esters with pentaerythritol	None	None	None	None
Phenol, polymer with 2,6,6-trimethylbicyclo[3.1.1]hept-2-ene	None	None	None	None
N,N-Ethylene bis(oleamide)	None	None	None	None
Pentaerythritol tetrakis[(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	None	None	None	None
tris(2,4-ditert-butylphenyl) phosphite	None	None	None	None
Vinyl acetate	10 ppm TWA 15 ppm STEL	None	None	None
Distillates (petroleum), solvent-dewaxed heavy paraffinic	None	500 ppm (2,000 mg/m <sup>3</sup> ) PEL 5 mg/m <sup>3</sup> PEL Mist.	None	None
Distillates (petroleum), solvent-refined heavy paraffinic	5 mg/m <sup>3</sup> TWA Inhalable fraction. 5 mg/m <sup>3</sup> TWA mist 10 mg/m <sup>3</sup> STEL mist	500 ppm (2,000 mg/m <sup>3</sup> ) PEL 5 mg/m <sup>3</sup> PEL Mist. 5 mg/m <sup>3</sup> TWA mist	None	None
Distillates (petroleum), solvent-refined light paraffinic, contains < 3% DMSO	5 mg/m <sup>3</sup> TWA Inhalable fraction.	5 mg/m <sup>3</sup> PEL Mist.	None	None
Antioxidant~	None	None	None	None
Butyl hydroxytoluene	2 mg/m <sup>3</sup> TWA Inhalable fraction and vapor.	None	None	None
2,6-Di-tert-butyl-4-ethylphenol	None	None	None	None
Xylenes	100 ppm TWA 150 ppm STEL	100 ppm (435 mg/m <sup>3</sup> ) PEL	None	None
Diol ester~	None	None	None	None
Synthetic wax~	None	None	None	None

<b>Engineering controls:</b>	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.
<b>Respiratory protection:</b>	No personal respiratory protective equipment normally required. Where the potential exists for exposure to decomposition products due to heating or elevated temperatures, wear NIOSH approved respiratory protection as appropriate.
<b>Eye/face protection:</b>	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Do not wear contact lenses.
<b>Skin protection:</b>	Insulated gloves and long sleeved clothing are strongly recommended when working with molten adhesive.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Solid
<b>Color:</b>	Yellow
<b>Odor:</b>	Negligible
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not available.
<b>Vapor pressure:</b>	Not available.
<b>Boiling point/range:</b>	Not available.
<b>Melting point/ range:</b>	110 °C (230°F) (Softening Point)
<b>Specific gravity:</b>	0.99
<b>Vapor density:</b>	Not available.
<b>Flash point:</b>	> 260.00 °C (> 500°F) Cleveland open cup
<b>Flammable/Explosive limits - lower:</b>	Not applicable
<b>Flammable/Explosive limits - upper:</b>	Not applicable
<b>Autoignition temperature:</b>	Not available.
<b>Evaporation rate:</b>	Not applicable
<b>Solubility in water:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>VOC content:</b>	0.00 % Negligible
<b>Viscosity:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Thermal decomposition can lead to release of irritating gases and vapors. carbon monoxide carbon dioxide
<b>Incompatible materials:</b>	Oxidizing agents.
<b>Reactivity:</b>	Not available.
<b>Conditions to avoid:</b>	To avoid thermal decomposition, do not overheat. Avoid temperatures above 200°C (392°F).

## 11. TOXICOLOGICAL INFORMATION

<b>Relevant routes of exposure:</b>	Skin, Inhalation, Eyes
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**Potential Health Effects/Symptoms**

**Inhalation:** Dusts from solid adhesive may cause irritation. Continuous breathing of vapors above molten adhesive may irritate mucous membranes.  
**Skin contact:** Solid adhesive has no hazards. Molten adhesive may cause severe burns.  
**Eye contact:** Can cause mechanical irritation if dusts are generated. Fumes released during thermal processing may cause eye irritation. Molten adhesive in eyes will cause severe and permanent damage.  
**Ingestion:** Not expected under normal conditions of use. Expected to be low in toxicity.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Ethylene-Vinyl acetate copolymer	None	No Target Organs
Paraffin waxes (petroleum), hydrotreated	None	No Records
Resin acids and Rosin acids, esters with pentaerythritol	None	Irritant
Phenol, polymer with 2,6,6-trimethylbicyclo[3.1.1]hept-2-ene	None	No Records
N,N-Ethylene bis(oleamide)	None	No Records
Pentaerythritol tetrakis[(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	None	No Target Organs
tris(2,4-ditert-butylphenyl) phosphite	None	No Target Organs
Vinyl acetate	Oral LD50 (RAT) = 2,920 mg/kg Dermal LD50 (RABBIT) = 2,335 mg/kg Inhalation LC50 (RABBIT, 4 h) = 2500 ppm Inhalation LC50 (RABBIT, 4 h) = 2511 ppm Inhalation LC50 (RABBIT, 4 h) = 8800 ppm Inhalation LC50 (RAT, 4 h) = 3680 ppm	Central nervous system, Irritant, Mutagen, Some evidence of carcinogenicity
Distillates (petroleum), solvent-dewaxed heavy paraffinic	None	Irritant
Distillates (petroleum), solvent-refined heavy paraffinic	None	Irritant
Distillates (petroleum), solvent-refined light paraffinic, contains < 3% DMSO	None	Irritant, Some evidence of carcinogenicity
Antioxidant-	None	No Data
Butyl hydroxytoluene	Oral LD50 (RAT) = 890 mg/kg	Irritant, Mutagen
2,6-Di-tert-butyl-4-ethylphenol	None	No Data
Xylenes	Oral LD50 (RAT) = 6,670 mg/kg Oral LD50 (RAT) = 3,523 - 8,600 mg/kg Oral LD50 (RAT) = 4,300 mg/kg Dermal LD50 (RABBIT) = > 43 g/kg Inhalation LC50 (RAT, 4 h) = 6,350 mg/l	Cardiac, Central nervous system, Irritant, Kidney, Liver
Diol ester-	None	No Data
Synthetic wax-	None	No Data

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethylene-Vinyl acetate copolymer	No	No	No
Paraffin waxes (petroleum), hydrotreated	No	No	No
Resin acids and Rosin acids, esters with pentaerythritol	No	No	No
Phenol, polymer with 2,6,6-trimethylbicyclo[3.1.1]hept-2-ene	No	No	No
N,N-Ethylene bis(oleamide)	No	No	No
Pentaerythritol tetrakis[(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	No	No	No
tris(2,4-ditert-butylphenyl) phosphite	No	No	No
Vinyl acetate	No	Group 2B	No
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No	No	No
Distillates (petroleum), solvent-refined heavy paraffinic	No	No	No
Distillates (petroleum), solvent-refined	No	No	No

light paraffinic, contains < 3% DMSO			
Antioxidant~	No	No	No
Butyl hydroxytoluene	No	No	No
2,6-Di-tert-butyl-4-ethylphenol	No	No	No
Xylenes	No	No	No
Diol ester~	No	No	No
Synthetic wax~	No	No	No

## 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:** 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. Follow all local, state, federal and provincial regulations for disposal.

**Hazardous waste number:** Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

### 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

## 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  
 Vinyl acetate (CAS# 108-05-4).

**CERCLA/SARA Section 311/312:** None

**CERCLA/SARA Section 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:** This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information**

**CEPA DSL/NDL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

**16. OTHER INFORMATION**

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

**Prepared by:** S. Fedele, Regulatory Affairs

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