



Revision Number: 003.1 Issue date: 05/28/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Encap® 3184 Polyurethane Hardener

Product type: Polyurethane hardener

IDH number: 232866 Item number: 39398 Region: United States

Contact information: Telephone: 716.372.6300

Emergency telephone: 860.571.5100 Internet: www.electronics.henkel.us

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state:LiquidHEALTH:*1Color:WhiteFLAMMABILITY:1Odor:AromaticPHYSICAL HAZARD:0

Personal Protection: See MSDS Section 8

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Company address:

Henkel Corporation

211 Franklin Street

Olean, New York 14760

Inhalation: May cause respiratory tract irritation.

Skin contact: May cause skin irritation. **Eye contact:** May cause irritation.

Ingestion: Not expected under normal conditions of use.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders.

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	%
Aluminium hydroxide	21645-51-2	30 - 60
Castor oil	8001-79-4	30 - 60
Titanium dioxide	13463-67-7	1 - 5

4. FIRST AID MEASURES

Inhalation: Move 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: Wash with soap and water. Remove contaminated clothing and footwear.

Wash clothing before reuse. If symptoms develop and persist, get medical

attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

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Ingestion: Do not induce vomiting. If individual is conscious, wash out mouth with water.

Never give anything by mouth to an unconscious person. Get medical

attention.

5. FIRE FIGHTING MEASURES

Flash point: 163 °C (325.4 °F) Closed cup

Autoignition temperature: Not determined

Flammable/Explosive limits - lower: Not determined

Flammable/Explosive limits - upper:

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Not determined

Unusual fire or explosion hazards: Not available

Hazardous combustion products: Oxides of carbon, oxides of nitrogen, irritating organic vapors. Oxides of

aluminum.

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 product to enter sewer or waterways.

Clean-up methods: Evacuate and ventilate spill area; dike spill to prevent entry into water system;

wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in

a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling. Keep away from heat, spark and flame. For operations where eye or face contact could occur, provide safety shower and

eyewash fountain.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use.

For information on product shelf life contact Henkel Customer Service at 1-716-372-6300.

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
Aluminium hydroxide	10 mg/m3 TWA (as Al) Total dust.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable fraction.	None	None
Castor oil	None	None	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA Total dust.	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists. Safety

showers and eye wash stations should be available.

Skin protection: Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:WhiteOdor:AromaticOdor threshold:Not availablepH:Not availableVapor pressure:0.2 mm hg EstimatedBoiling point/range:> 149 °C (> 300.2 °F)

Melting point/ range:

Specific gravity:

Not available

1.5

Vapor density: 3.6 (Air = 1)

Flash point: 163 °C (325.4 °F) Closed cup

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Not determined

Not determined

Evaporation rate: < 0.1
Solubility in water: Soluble
Partition coefficient (n-octanol/water): Not available

VOC content: < 1 %; < 10 g/l (estimated value for resin and hardener mixed together)

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: None under normal processing.

Hazardous decomposition products: None reasonably foreseeable.

Incompatible materials: Strong oxidizing agents. Strong acids. Metals.

Conditions to avoid: Store away from incompatible materials. Keep away from open flames, hot

surfaces and sources of ignition.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Aluminium hydroxide	No	No	No
Castor oil	No	No	No
Titanium dioxide	No	Group 2B	No

Hazardous components	Health Effects/Target Organs
Aluminium hydroxide	Irritant, Lung, Respiratory
Castor oil	Irritant
Titanium dioxide	Irritant, Respiratory

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.

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:
Hazard class or division:
Identification number:
Packing group:
Not regulated
None
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 minimus

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

None above reporting de minimus
Immediate Health, Delayed Health
None above reporting de minimus

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

IDH number: 232866

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other

components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

WHMIS hazard class: D.2.E

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Corrected information in Section(s): 3

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