Material Safety Data Sheet



Revision Number: 001.1 Issue date: 12/29/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:Nordbak Fast Cure Wearing CMPDIDH number:702207Product type:Epoxy HardenerItem number:96373_313000Region:United States

Company address:

Contact information:

Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Contact information:

Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state:PasteHEALTH:*3Color:BlueFLAMMABILITY:1Odor:Slight, AmmoniacalPHYSICAL HAZARD:1

Personal Protection: See MSDS Section 8

DANGER: CAUSES EYE AND SKIN BURNS.

MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.

MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

COMBUSTIBLE LIQUID AND VAPOR.

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

Potential Health Effects

Inhalation: May cause allergic respiratory reaction. Moderate respiratory tract irritation. Shortness of

breath. Coughing.

Skin contact: May be harmful if absorbed through skin. May cause allergic skin reaction. Itching. Causes skin

burns. Pain and discomfort. Tissue damage.

Eye contact: Causes eye burns. Blurred vision. Excess tearing. Pain and discomfort. Tissue damage.

Permanent damage. Liquid, aerosols or vapor are irritating and can cause tearing, reddening and swelling. Corneal edema may give appearance of "blue haze" or "fog" around lights.

Ingestion: May be harmful if swallowed. Irritation and corrosive action can occur in the mouth, stomach

tissue and digestive tract if swallowed. May cause an aspiration hazard if swallowed. If swallowed, may be aspirated into the lungs resulting in inflammation and possible fluid

accumulation.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders. Asthma.

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	%	
Aluminum oxide, fibrous	1344-28-1	30 - 60	
Silicon carbide	409-21-2	10 - 30	
N-Aminoethylpiperazine	140-31-8	5 - 10	
4,4'-Isopropylidenediphenol	80-05-7	5 - 10	
Silicon dioxide	7631-86-9	1 - 5	
Nonylphenol	25154-52-3	1 - 5	
Magnesium oxide	1309-48-4	1 - 5	
Triethanolamine	102-71-6	1 - 5	
Diethylenetriamine	111-40-0	1 - 5	
Polyoxypropylentriamine	64852-22-8	1 - 5	

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. Wash clothing before reuse. Thoroughly

clean shoes before reuse. Get medical attention.

Eye contact: 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.

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

attention.

5. FIRE FIGHTING MEASURES

Flash point: 88 °C (190.4 °F) Setaflash Closed Cup

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available
Flammable/Explosive limits - upper:

Not available

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.

Unusual fire or explosion hazards: None

IDH number: 702207

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Ammonia. Phenolics. Nitric acid.

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: Immediately contact emergency personnel. Remove all sources of ignition.

Keep unnecessary personnel away. Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for

disposal.

7. HANDLING AND STORAGE

Handling: Do not taste or swallow. Remove all sources of ignition. Prevent contact with

eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly

after handling. Use only with adequate ventilation.

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 (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
Aluminum oxide, fibrous	1 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Silicon carbide	10 mg/m3 TWA Inhalable fraction. 3 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
N-Aminoethylpiperazine	None	None	None	None
4,4'-Isopropylidenediphenol	None	None	None	None
Silicon dioxide	6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction.
Nonylphenol	None	None	None	None
Magnesium oxide	10 mg/m3 TWA Inhalable fraction.	15 mg/m3 TWA Total particulate.	None	None
Triethanolamine	5 mg/m3 TWA	None	None	None
Diethylenetriamine	1 ppm TWA (SKIN)	None	None	None
Polyoxypropylentriamine	None	None	None	None

Engineering controls: Not available

Respiratory protection: Use a NIOSH approved air-purifying respirator with an organic vapor cartridge.

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

Skin protection:Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact. Butyl rubber gloves. Nitrile gloves.

Viton gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste Color: Blue

Slight, Ammoniacal Odor: Odor threshold: Not available pH: Not available Vapor pressure: Not available Boiling point/range: Not applicable Melting point/ range: Not available Specific gravity: 2.716 Vapor density: Not available

Flash point: 88 °C (190.4 °F) Setaflash Closed Cup

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Not available

Not available

Not available

IDH number: 702207 Product name: Nordbak Fast Cure Wearing CMPD

Solubility in water: Slight
Partition coefficient (n-octanol/water): Not available

VOC content: < 1.0 %; < 10 g/l (value for resin and hardener together) (estimated)

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: None

Incompatible materials: Strong Lewis acids. Strong mineral acids. Strong bases. Strong oxidizing

agents.

Conditions to avoid: None known

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Aluminum oxide, fibrous	No	No	No
Silicon carbide	No	No	No
N-Aminoethylpiperazine	No	No	No
4,4'-Isopropylidenediphenol	No	No	No
Silicon dioxide	No	No	No
Nonylphenol	No	No	No
Magnesium oxide	No	No	No
Triethanolamine	No	No	No
Diethylenetriamine	No	No	No
Polyoxypropylentriamine	No	No	No

Hazardous components	Health Effects/Target Organs	
Aluminum oxide, fibrous	Irritant, Nuisance dust, Corrosive	
Silicon carbide	Nuisance dust	
N-Aminoethylpiperazine	Irritant, Corrosive, Allergen	
4,4'-Isopropylidenediphenol	Allergen, Blood, Irritant, Kidney, Reproductive, Spleen	
Silicon dioxide	Nuisance dust	
Nonylphenol	Allergen, Corrosive, Irritant, Kidney	
Magnesium oxide	Blood, Central nervous system, Immune system, Irritant	
Triethanolamine	Irritant, Allergen	
Diethylenetriamine	Allergen, Irritant, Eyes	
Polyoxypropylentriamine	No Records	

12. ECOLOGICAL INFORMATION

Ecological information: Not available

IDH number: 702207

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: Amines, solid, corrosive, n.o.s. (Aminoethylpiperazine, Diethylenetriamine)

Hazard class or division: 8
Identification number: UN 32

Identification number: UN 3259
Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, solid, corrosive, n.o.s. (Aminoethylpiperazine, Diethylenetriamine)

Hazard class or division: 8
Identification number: UN 3259
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (Aminoethylpiperazine,

Diethylenetriamine)

Hazard class or division: 8
Identification number: UN 3259
Packing group: III

Packing group: III

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 Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA 313: This product contains the following toxic

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). Aluminum oxide, fibrous (CAS# 1344-28-1). 4,4'-Isopropylidenediphenol (CAS#

80-05-7).

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

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: B.3, D.2.A, D.2.B, E

16. OTHER INFORMATION

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

Prepared by: Gary Pierson, Manager, Regulatory Affairs

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.