



Revision Number: 002.1

Issue date: 12/30/2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b>	<b>Nordbak Fast Cure Pneu Wear</b>	<b>IDH number:</b>	702205
<b>Product type:</b>	Epoxy Hardener	<b>Item number:</b>	96363_317000
		<b>Region:</b>	United States
<b>Company address:</b>		<b>Contact information:</b>	
Henkel Corporation		Telephone: 860.571.5100	
One Henkel Way		Emergency telephone: 860.571.5100	
Rocky Hill, Connecticut 06067		Internet: www.henkelna.com	

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

<b>Physical state:</b>	Paste	<b>HMIS:</b>	
<b>Color:</b>	Blue	<b>HEALTH:</b>	*3
<b>Odor:</b>	Slight, Ammoniacal	<b>FLAMMABILITY:</b>	1
		<b>PHYSICAL HAZARD:</b>	1
		<b>Personal Protection:</b>	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

<b>Inhalation:</b>	Allergic respiratory reaction. Moderate respiratory tract irritation. Shortness of breath. Coughing.
<b>Skin contact:</b>	May be harmful if absorbed through skin. May cause allergic skin reaction. Itching. Causes skin burns. Pain and discomfort. Tissue damage.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	May be harmful 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	60 - 100
Silicon carbide	409-21-2	5 - 10
N-Aminoethylpiperazine	140-31-8	5 - 10
4,4'-Isopropylidenediphenol	80-05-7	5 - 10
Nonylphenol	25154-52-3	1 - 5
Triethanolamine	102-71-6	1 - 5
Diethylenetriamine	111-40-0	1 - 5
Aliphatic amine	Proprietary	1 - 5

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Skin contact:</b>	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.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	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

<b>Flash point:</b>	88 °C (190.4 °F) Pensky Martens closed cup
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits - lower:</b>	Not available
<b>Flammable/Explosive limits - upper:</b>	Not available
<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Unusual fire or explosion hazards:</b>	None
<b>Hazardous combustion products:</b>	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.

<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	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. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

### 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
Nonylphenol	None	None	None	None
Triethanolamine	5 mg/m3 TWA	None	None	None
Diethylenetriamine	1 ppm TWA (SKIN)	None	None	None
Aliphatic amine	None	None	None	None

### Engineering controls:

Use local exhaust ventilation if the potential for airborne exposure exists.

### 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.

### Skin protection:

Chemical resistant, impermeable gloves. Butyl rubber gloves. Nitrile gloves. Viton gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Blue
Odor:	Slight, Ammoniacal
Odor threshold:	Not available
pH:	Not available
Vapor pressure:	Not available
Boiling point/range:	Not applicable
Melting point/ range:	Not available
Specific gravity:	2.264
Vapor density:	Not available
Flash point:	88 °C (190.4 °F) Pensky Martens closed cup
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Autoignition temperature:	Not available
Evaporation rate:	Not available
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

<b>Stability:</b>	Stable
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	None
<b>Incompatible materials:</b>	Strong Lewis acids. Strong mineral acids. Strong bases. Strong oxidizing agents.
<b>Conditions to avoid:</b>	Store away from incompatible materials.

## 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
Nonylphenol	No	No	No
Triethanolamine	No	No	No
Diethylenetriamine	No	No	No
Aliphatic amine	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
Nonylphenol	Allergen, Corrosive, Irritant, Kidney
Triethanolamine	Irritant, Allergen
Diethylenetriamine	Allergen, Irritant, Eyes
Aliphatic amine	No Records

## 12. ECOLOGICAL INFORMATION

<b>Ecological information:</b>	Not available
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## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

<b>Recommended method of disposal:</b>	Follow all local, state, federal and provincial regulations for disposal.
<b>Hazardous waste number:</b>	Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

### U.S. Department of Transportation Ground (49 CFR)

<b>Proper shipping name:</b>	Amines, solid, corrosive, n.o.s. (Aminoethylpiperazine, Diethylenetriamine)
<b>Hazard class or division:</b>	8
<b>Identification number:</b>	UN 3259
<b>Packing group:</b>	III

### International Air Transportation (ICAO/IATA)

<b>Proper shipping name:</b>	Amines, solid, corrosive, n.o.s. (Aminoethylpiperazine, Diethylenetriamine)
<b>Hazard class or division:</b>	8
<b>Identification number:</b>	UN 3259
<b>Packing group:</b>	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

**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). 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

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