



Revision Date: 02/08/2006

Issue date: 02/12/2006

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** NORDBAK UT/HI WEAR PART A  
**Product type:** Epoxy Resin  
**Company address:**  
Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**Item No. :** 96392\_10336000 / IDH No. 728438  
**Region:** United States  
**Contact Information:**  
Telephone: (860) 571-5100  
Emergency telephone: (860) 571-5100  
Internet: www.henkelna.com

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Aluminum oxide 1344-28-1	30-60	10 mg/m <sup>3</sup> TWA particulate matter containing no asbestos and < 1% crystalline silica None	15 mg/m <sup>3</sup> TWA total dust 5 mg/m <sup>3</sup> TWA respirable fraction	None
Oxiranemethanamine N,N' - (methylenedi-4,1-phenylene)bis(N- (oxiranylmethyl) 28768-32-3	10-30	None	None	None
Silicon carbide 409-21-2	5-10	0.1 fiber/cm <sup>3</sup> TWA fibrous (including whiskers), respirable fibers: length > 5 µm, aspect ratio equal to or greater than 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination. 10 mg/m <sup>3</sup> TWA nonfibrous, inhalable fraction, particulate matter containing no asbestos and < 1% crystalline silica 3 mg/m <sup>3</sup> TWA nonfibrous, respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica None	15 mg/m <sup>3</sup> TWA total dust 5 mg/m <sup>3</sup> TWA respirable fraction	None
Neopentyl glycol diglycidyl ether 17557-23-2	1-5	None	None	None
Silica, amorphous (fumed) 7631-86-9	1-5	6 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> TWA respirable dust
Magnesium oxide 1309-48-4	1-5	10 mg/m <sup>3</sup> TWA inhalable fraction	15 mg/m <sup>3</sup> TWA total particulate	None
Treated fumed silica 67762-90-7	1-5	10mg/m <sup>3</sup> Inhalable fraction, 3mg/m <sup>3</sup> Respirable fraction, TWA	5mg/m <sup>3</sup> Respirable dust, 15mg/m <sup>3</sup> Total dust	None
Iron oxide 1309-37-1	1-5	1 mg/m <sup>3</sup> TWA as Fe 5 mg/m <sup>3</sup> TWA dust and fume, as Fe	10 mg/m <sup>3</sup> TWA	None

Item No. : 96392\_10336000 / IDH No. 728438

Product name: NORDBAK UT/HI WEAR PART A

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**Physical state:** Paste  
**Color:** Red  
**Odor:** Nondescript

#### HMIS:

**HEALTH:** 2\*  
**FLAMMABILITY:** 1  
**PHYSICAL HAZARD:** 0  
**Personal Protection:** See Section 8

**WARNING:** MAY CAUSE ALLERGIC SKIN REACTION.  
CAUSES EYE IRRITATION.  
MAY BE HARMFUL IF SWALLOWED.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.  
MAY CAUSE SKIN IRRITATION.

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

#### Potential Health Effects

**Inhalation:** May cause respiratory tract irritation.  
**Skin contact:** Allergic skin reaction. Itching. Rash. Mild skin irritation. Redness. Prolonged contact with skin may cause dermatitis.  
**Eye contact:** Severe eye irritation. May cause eye injury. Blurred vision. Excess tearing. Pain and discomfort.  
**Ingestion:** May be harmful if swallowed. Moderately toxic by ingestion. Ingestion may cause stomach ache and vomiting. Nausea.

**Existing conditions aggravated by exposure:** Respiratory disorders. Skin disorders. Eye disorders. Eczema. Pre-existing skin or lung allergies may increase the chance of developing exaggerated allergic symptoms from exposure to this product.

See Section 11 for additional toxicological information.

### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If discomfort persists seek medical attention.

**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

**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 immediately.

**Notes to physician:** None.

### 5. FIRE-FIGHTING MEASURES

**Flash point:** 93°C (200°F) Pensky Martens closed cup

**Autoignition temperature:** Not available

**Flammable/Explosive limits-lower %:** Not available

**Flammable/Explosive limits-upper %:** Not available

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

**Special fire fighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Use water spray to keep fire exposed containers cool. Caution should be exercised when using water or foam as frothing may occur.

**Unusual fire or explosion hazards:** Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

**Hazardous combustion products:** Oxides of nitrogen. Oxides of carbon. Aldehydes. Acids. Toxic fumes. Phenolics. Ammonia.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Prevent product from entering the drains.
<b>Clean-up methods:</b>	Immediately contact emergency personnel. Remove all ignition sources. Keep unnecessary personnel away.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Do not swallow. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
<b>Storage:</b>	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Store at or below 4.4°C (40°F).
<b>Incompatible products:</b>	Not available

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Not normally needed. Use local exhaust ventilation if the potential for airborne exposure exists.
<b>Respiratory protection:</b>	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
<b>Skin protection:</b>	Chemical resistant, impermeable gloves.
<b>Eye/face protection:</b>	Chemical splash goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Paste
<b>Color:</b>	Red
<b>Odor:</b>	Nondescript
<b>Vapor pressure:</b>	Not available
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	Not available
<b>Melting point/range:</b>	Not available
<b>Specific gravity:</b>	2.157
<b>Vapor density:</b>	Greater than 1 (air equals 1)
<b>Evaporation rate:</b>	Slower than butyl acetate
<b>Solubility in water:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	<1.0%; <10 grams/liter (value for resin and hardener together) (estimated)

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Hazardous polymerization:</b>	May occur.
<b>Hazardous decomposition products:</b>	None
<b>Incompatibility:</b>	Acids. Alkalis. Strong oxidizers. Strong acids. Amines. Mercaptans.
<b>Conditions to avoid:</b>	None known.

## 11. TOXICOLOGICAL INFORMATION

<b>Product toxicity data:</b>	Not available
-------------------------------	---------------

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Aluminum oxide 1344-28-1	No	No	No
Oxiranemethanamine N,N'- (methylenedi-4,1-phenylene)bis(N- (oxiranylmethyl) 28768-32-3	No	No	No
Silicon carbide 409-21-2	No	No	No
Neopentyl glycol diglycidyl ether 17557-23-2	No	No	No
Silica, amorphous (fumed) 7631-86-9	No	No	No
Magnesium oxide 1309-48-4	No	No	No
Treated fumed silica 67762-90-7	No	No	No
Iron oxide 1309-37-1	No	No	No

#### **Literature Referenced Target Organ & Other Health Effects**

Hazardous components	Health Effects/Target Organs
Aluminum oxide 1344-28-1	Corrosive, Irritant, Nuisance dust
Oxiranemethanamine N,N'- (methylenedi-4,1-phenylene)bis(N- (oxiranylmethyl) 28768-32-3	Allergen, Blood, Central nervous system, Gastrointestinal, Irritant, Kidney, Liver, Nervous System, Mutagen
Silicon carbide 409-21-2	Nuisance dust
Neopentyl glycol diglycidyl ether 17557-23-2	Allergen, Irritant, Blood, Immune system, Bone Marrow, Reproductive
Silica, amorphous (fumed) 7631-86-9	Nuisance dust
Magnesium oxide 1309-48-4	Blood, Central nervous system, Immune system, Irritant
Treated fumed silica 67762-90-7	Irritant
Iron oxide 1309-37-1	Lung, Liver, Kidney, Irritant, Central nervous system, Cardiac, Allergen

## **12. ECOLOGICAL INFORMATION**

**Ecological information:** Not known

## **13. DISPOSAL CONSIDERATIONS**

**Information provided is for unused product only.**

**Recommended method of disposal:** Dispose according to EPA and local governmental regulations.

**EPA 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

**Item No. :** 96392\_10336000 / IDH No. 728438

**Product name:** NORDBAK UT/HI WEAR PART A

Identification number:	None
Packing group:	None
Marine pollutant:	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.

CERCLA/SARA Section 302 EHS:	None above reporting de minimus.
CERCLA/SARA Section 311/312:	Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 313:	None above reporting de minimus.

California Proposition 65:	This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.
----------------------------	---

### Canada Regulatory Information

CEPA DSL/NDL Status:	All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class:	D.2.A, D.2.B

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 9

Prepared by:	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.