# **Material Safety Data Sheet**



Revision Number: 002.1 Issue date: 12/10/2009

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:Nordbak UltraHighTempPneu WearIDH number:702203Product type:Epoxy HardenerItem number:96332\_321000Region:United States

Company address:Contact information:Henkel CorporationTelephone: 860.571.5100

One Henkel Way Emergency telephone: 860.571.5100 Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW HMIS:

Physical state:PasteHEALTH:\*3Color:Dark AmberFLAMMABILITY:1Odor:MustyPHYSICAL HAZARD:0

Personal Protection: See MSDS Section 8

DANGER: CAUSES EYE AND SKIN BURNS.

MAY CAUSE ALLERGIC SKIN REACTION. CAUSES RESPIRATORY TRACT IRRITATION.

MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.

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

**Potential Health Effects** 

**Inhalation:** Severe respiratory tract irritation. Shortness of breath. May cause irritation to nose and throat.

Coughing.

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

cause skin burns. Redness. Tissue damage. Pain and discomfort.

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

Redness.

**Ingestion:** May be harmful if swallowed. May cause burns of mouth and throat if swallowed. May cause an

aspiration hazard if swallowed. Aspirated material can enter the lungs and result in

pneumonitis.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders. Skin allergies. 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
Cycloaliphatic amine	Proprietary	10 - 30
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	10 - 30
Silicon carbide	409-21-2	5 - 10
Substituted aminophenol	Proprietary	1 - 5
Linear low density polyethylene	9002-88-4	1 - 5
Silicon dioxide	7631-86-9	1 - 5

IDH number: 702203 Product name: Nordbak UltraHighTempPneu Wear

## 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: 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. If symptoms develop and persist, 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. Keep

individual calm. Never give anything by mouth to an unconscious person. Get

medical attention.

# 5. FIRE FIGHTING MEASURES

Flash point: 93 °C (199.4 °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: In case of fire, keep containers cool with water spray.

Hazardous combustion products: Oxides of carbon.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready for disposal.

#### 7. HANDLING AND STORAGE

**Handling:** Avoid breathing dust. Do not taste or swallow. Do not get on skin or clothing.

Avoid eye contact. Use only with adequate ventilation. Keep container closed.

Wash thoroughly after handling.

Storage: Store in original container until ready to use. 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.

IDH number: 702203 Product name: Nordbak UltraHighTempPneu Wear

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
Cycloaliphatic amine	None	None	None	None
4,4'-Methylenebis(cyclohexylamine)	None	None	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
Substituted aminophenol	None	None	None	None
Linear low density polyethylene	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

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. Full face protection should

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

Skin protection: Chemical resistant, impermeable gloves. Use chemical resistant, impermeable

clothing including gloves and either an apron or body suit to prevent skin

contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:PasteColor:Dark AmberOdor:MustyOdor threshold:Not availablepH:AlkalineVapor pressure:Not available

**Boiling point/range:** 199 - 216 °C (390.2 - 420.8 °F)

Melting point/ range:

Specific gravity:

Not available
1.9566

Vapor density: Heavier than air.

Flash point: 93 °C (199.4 °F) Setaflash Closed Cup

Flammable/Explosive limits - lower: Not available Flammable/Explosive limits - upper: Not available Autoignition temperature: Not available

**Evaporation rate:** Less than butyl acetate.

Solubility in water:

Partition coefficient (n-octanol/water):

VOC content:

Slight

Not available

Not available

## 10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Toxic fumes.

Incompatible materials: None known

IDH number: 702203

Conditions to avoid: Store away from incompatible materials.

# 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Aluminum oxide, fibrous	No	No	No
Cycloaliphatic amine	No	No	No
4,4'-Methylenebis(cyclohexylamine)	No	No	No
Silicon carbide	No	No	No
Substituted aminophenol	No	No	No
Linear low density polyethylene	No	No	No
Silicon dioxide	No	No	No

Hazardous components	Health Effects/Target Organs
Aluminum oxide, fibrous	Irritant, Nuisance dust, Corrosive
Cycloaliphatic amine	No Data
4,4'-Methylenebis(cyclohexylamine)	Irritant, Allergen
Silicon carbide	Nuisance dust
Substituted aminophenol	Irritant, Allergen
Linear low density polyethylene	No Target Organs
Silicon dioxide	Nuisance dust

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available

## 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. (aliphatic Amine)

Hazard class or division: 8

Identification number: UN 3259
Packing group: III

#### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Amines, solid, corrosive, n.o.s. (aliphatic Amine)

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. (aliphatic Amine)

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

IDH number: 702203 Product name: Nordbak UltraHighTempPneu Wear

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

**Canada Regulatory Information** 

IDH number: 702203

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

WHMIS hazard class: D.1.B, 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

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