

# Material Safety Data Sheet



Revision Number: 004.1

Issue date: 11/30/2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Nordbak Brush Ceramic- Grey  
**Product type:** Epoxy resin

**IDH number:** 702264  
**Item number:** 98733\_10362000  
**Region:** United States

**Company address:**  
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

**Physical state:** Paste  
**Color:** White  
**Odor:** Epoxy, Mild, Petroleum

### HMIS:

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

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

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

### Potential Health Effects

**Inhalation:** Mild respiratory tract irritation. Coughing. Vapors and mists will irritate nose and throat and possibly eyes.  
**Skin contact:** Allergic skin reaction. Moderate skin irritation. Redness. Itching. Pain and discomfort. Swelling. Contact at elevated temperatures may cause thermal burns.  
**Eye contact:** Moderate eye irritation. Redness. Excess tearing. Blurred vision. Pain and discomfort. Contact at elevated temperatures may cause thermal burns. May cause transient eye irritation.  
**Ingestion:** May be harmful if swallowed. May cause gastrointestinal tract irritation if swallowed. Nausea.

**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders. Skin allergies.

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 | %       |
|----------------------------------------------------|------------|---------|
| Silicon carbide                                    | 409-21-2   | 30 - 60 |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | 25068-38-6 | 30 - 60 |
| Aluminum oxide, fibrous                            | 1344-28-1  | 1 - 5   |
| Castor oil, hydrogenated                           | 8001-78-3  | 1 - 5   |
| Cristobalite                                       | 14464-46-1 | 0.1 - 1 |

## 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

IDH number: 702264

Page 1 of 5

Product name: Nordbak Brush Ceramic- Grey

|                      |                                                                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact:</b> | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, 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. Keep individual calm. If symptoms develop and persist, get medical attention.                        |

## 5. FIRE FIGHTING MEASURES

|                                            |                                                                                                                                                               |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flash point:</b>                        | > 93 °C (> 199.4 °F) Tagliabue 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>                | 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>  | In case of fire, keep containers cool with water spray.                                                                                                       |
| <b>Hazardous combustion products:</b>      | Oxides of carbon. Aldehydes. Acids. Phenolics. Carbonyl fluoride. Hexafluoropropene. Perfluoroisobutylene. Tetrafluoroethylene. Irritating organic fragments. |

## 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>          | 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

|                  |                                                                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling:</b> | Keep away from heat, spark and flame. Avoid contact with eyes, skin and clothing. Do not breathe gas/fumes/vapor/spray. Do not taste or swallow. Keep container closed. Wash thoroughly after handling. |
| <b>Storage:</b>  | 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.

| Hazardous components                               | ACGIH TLV                                                                  | OSHA PEL                                                                                       | AIHA WEEL | OTHER |
|----------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------|-------|
| Silicon carbide                                    | 10 mg/m3 TWA<br>Inhalable fraction.<br>3 mg/m3 TWA<br>Respirable fraction. | 5 mg/m3 TWA<br>Respirable fraction.<br>15 mg/m3 TWA<br>Total dust.                             | None      | None  |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | None                                                                       | None                                                                                           | None      | None  |
| Aluminum oxide, fibrous                            | 1 mg/m3 TWA<br>Respirable fraction.                                        | 5 mg/m3 TWA<br>Respirable fraction.<br>15 mg/m3 TWA<br>Total dust.                             | None      | None  |
| Castor oil, hydrogenated                           | None                                                                       | None                                                                                           | None      | None  |
| Cristobalite                                       | 0.025 mg/m3 TWA<br>Respirable fraction.                                    | 1.2 MPPCF TWA<br>Respirable.<br>0.05 mg/m3 TWA<br>Respirable.<br>0.15 mg/m3 TWA<br>Total dust. | 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Paste  
**Color:** White  
**Odor:** Epoxy, Mild, Petroleum  
**Odor threshold:** Not available  
**pH:** Not available  
**Vapor pressure:** Not available  
**Boiling point/range:** Not available  
**Melting point/ range:** Not available  
**Specific gravity:** 1.743  
**Vapor density:** > 1  
**Flash point:** > 93 °C (> 199.4 °F) Tagliabue closed cup  
**Flammable/Explosive limits - lower:** Not available  
**Flammable/Explosive limits - upper:** Not available  
**Autoignition temperature:** Not available  
**Evaporation rate:** Slower than butyl acetate.  
**Solubility in water:** Insoluble  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** < 0.1 %; < 1 g/l (value for resin and hardener together)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Hazardous reactions:** Will not occur.

**Hazardous decomposition products:** None

**Incompatible materials:** Strong oxidizing agents. Strong bases. Strong Lewis acids. Strong mineral acids. Strong acids. Amines. Mercaptans.

**Conditions to avoid:** Heat, flames, sparks and other sources of ignition. Excessive heat. Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

| Hazardous components                               | NTP Carcinogen    | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|----------------------------------------------------|-------------------|-----------------|---------------------------------------------|
| Silicon carbide                                    | No                | No              | No                                          |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | No                | No              | No                                          |
| Aluminum oxide, fibrous                            | No                | No              | No                                          |
| Castor oil, hydrogenated                           | No                | No              | No                                          |
| Cristobalite                                       | Known carcinogen. | Group 1         | No                                          |

| Hazardous components                               | Health Effects/Target Organs            |
|----------------------------------------------------|-----------------------------------------|
| Silicon carbide                                    | Nuisance dust                           |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | Allergen, Irritant                      |
| Aluminum oxide, fibrous                            | Irritant, Nuisance dust, Corrosive      |
| Castor oil, hydrogenated                           | No Target Organs                        |
| Cristobalite                                       | Carcinogen, Immune system, Kidney, Lung |

## 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: 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  
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: None above reporting de minimus  
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health  
CERCLA/SARA 313: 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**

**CEPA DSL/NDSL Status:**

All components are listed on or are exempt from listing on the Canadian 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: New Material Safety Data Sheet format.

**Prepared by:** Gary Pierson, Sr. Regulatory Affairs Specialist

**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.