Material Safety Data Sheet



Revision Number: 003.0 Issue date: 01/13/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Nordbak HighTemp Brush Ceramic IDH number: 702208

Product type: Epoxy resin ltem number: 96433_10330000
Region: 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:*2Color:GrayFLAMMABILITY:1Odor:SlightPHYSICAL HAZARD:1

Personal Protection: See MSDS Section 8

WARNING: CAUSES EYE IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION.

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

Potential Health Effects

Inhalation: Mild respiratory tract irritation. Coughing.

Skin contact: May cause allergic skin reaction. Itching. Rash. Moderate skin irritation. Redness. Prolonged

contact with skin may cause dermatitis.

Eye contact: May cause severe eye irritation. May cause eye injury. Blurred vision. Excess tearing. Pain and

discomfort. Redness.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders. Eczema. Pre-existing skin or lung allergies may increase the chance of developing exaggerated allergic symptoms from exposure to this product.

Asthma. Dermatitis.

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
4,4'-Methylenebis[N,N-bis(2,3-epoxypropyl)aniline]	28768-32-3	30 - 60
Trimethylolpropane triglycidyl ether	30499-70-8	10 - 30
Castor oil, hydrogenated	8001-78-3	1 - 5
Diiron trioxide	1309-37-1	1 - 5
Organophilic Clay	71011-26-2	1 - 5
Cristobalite	14464-46-1	0.1 - 1

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. Thoroughly clean shoes before reuse. Wash clothing before reuse. If symptoms develop and persist, get medical

attention.

Eye contact: Check for and remove any contact lenses. 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. If symptoms develop

and persist, get medical attention.

5. FIRE FIGHTING MEASURES

Flash point: > 93 °C (> 199.4 °F) Pensky Martens 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. In case of fire, keep containers cool with water spray. 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 carbon. Oxides of nitrogen. Oxides of sulfur. Oxides of silicon.

Aldehydes. Acids. Ammonia. Toxic chlorides. Toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Scrape up as much material as possible. Clean

residue with soap and water. Store in a partly filled, closed container until

disposal.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Avoid contact with eyes, skin and clothing.

Do not breathe gas/fumes/vapor/spray. Do not taste or swallow. Wash

thoroughly after handling. Keep container closed.

Storage: For safe storage, store at or below 4.4 °C (39.9 °F)

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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 Inhalable fraction. 3 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
4,4'-Methylenebis[N,N-bis(2,3-epoxypropyl)aniline]	None	None	None	None
Trimethylolpropane triglycidyl ether	None	None	None	None
Castor oil, hydrogenated	None	None	None	None
Diiron trioxide	5 mg/m3 TWA Respirable fraction.	10 mg/m3 TWA Fume.	None	None
Organophilic Clay	None	None	None	None
Cristobalite	0.025 mg/m3 TWA Respirable fraction.	1.2 MPPCF TWA Respirable. 0.05 mg/m3 TWA Respirable. 0.15 mg/m3 TWA Total dust.	None	None

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not

sufficient to control airborne contamination below occupational exposure

limits.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste Color: Gray Odor: Slight Odor threshold: Not available pH: Not available Vapor pressure: Not applicable Boiling point/range: Not available Melting point/ range: Not available Specific gravity: 1.6689 Vapor density: > 1 (Air = 1)

Flash point: > 93 °C (> 199.4 °F) Pensky Martens closed cup

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

Evaporation rate: Greater than butyl acetate.

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

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VOC content: 0 %; 0 g/l (value for resin and hardener together) (estimated)

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: May occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Oxides of silicon.

Aldehydes. Acids. Ammonia. Toxic chlorides. Toxic fumes.

Incompatible materials: Strong acids. Strong bases. Strong oxidizing agents. Amines. Mercaptans.

Moisture. Strong alkalis.

Conditions to avoid: Direct sunlight. Heat, flames, sparks and other sources of ignition. Store away

from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silicon carbide	No	No	No
4,4'-Methylenebis[N,N-bis(2,3-epoxypropyl)aniline]	No	No	No
Trimethylolpropane triglycidyl ether	No	No	No
Castor oil, hydrogenated	No	No	No
Diiron trioxide	No	No	No
Organophilic Clay	No	No	No
Cristobalite	Known carcinogen.	Group 1	No

Hazardous components	Health Effects/Target Organs	
Silicon carbide	Nuisance dust	
4,4'-Methylenebis[N,N-bis(2,3-epoxypropyl)aniline]	Allergen, Blood, Central nervous system, Gastrointestinal, Irritant, Kidney, Liver, Mutagen, Nervous System	
Trimethylolpropane triglycidyl ether	Irritant, Allergen	
Castor oil, hydrogenated	No Target Organs	
Diiron trioxide	Allergen, Cardiac, Central nervous system, Irritant, Kidney, Liver, Lung	
Organophilic Clay	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: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:
Not regulated
None
None
None

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International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Tetraglycidyl

diaminodiphenylmethane)

Hazard class or division: 9

Identification number: UN 3082 Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetraglycidyl

diaminodiphenylmethane)

Hazard class or division: 9

Identification number: UN 3082

Packing group:

Marine pollutant: Tetraglycidyl diaminodiphenylmethane

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 Immediate Health, Delayed Health None above reporting de minimus None above reporting de minimus

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

product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Canada Regulatory Information

IDH number: 702208

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. 1,2,3,7,8,10, 11,14,15

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