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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Ceramic Wear Compound/Epx Hard.
Product type: Epoxy Hardener
Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Item No. : 40591_193120 / IDH No. 894150
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>
Benzyl alcohol 100-51-6	30-60	None	None	10 ppm AIHA WEEL, 10ppm TWA, (WEEL)
Isophoronediamine 2855-13-2	30-60	None	None	None
Diethylene triamine 111-40-0	1-5	1 ppm TWA (skin)	None	None

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Physical state: Liquid
Color: Amber
Odor: Ammoniacal

HMIS:

HEALTH: 3
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

DANGER: CAUSES EYE AND SKIN BURNS.
HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.
MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin contact, Eye contact, Ingestion, Inhalation

Potential Health Effects

Inhalation: Severe respiratory tract irritation. Respiratory tract burns.
Skin contact: May cause skin burns. Harmful if absorbed through skin. May cause nausea, headache and general discomfort if absorbed through skin. May cause allergic skin reaction. Sensitization.
Eye contact: Causes eye burns. Burns of the eye may cause blindness. Severe eye irritation.
Ingestion: Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

Existing conditions aggravated by exposure: Eye disorders. Skin disorders. Skin allergies.

See Section 11 for additional toxicological information.

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4. FIRST AID MEASURES

Inhalation:	If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Remove to fresh air. Get medical attention.
Skin contact:	Remove contaminated clothing and shoes. Immediately flush skin with plenty of water (using soap, if available). Wash clothing before reuse. Get medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Check for and remove any contact lenses. Get medical attention.
Ingestion:	Do not induce vomiting or give anything by mouth because this material can enter the lungs and severe lung damage. Keep individual calm. If a person vomits when lying on his back, place him in the recovery position. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point:	Greater than 95°C (203°F) Pensky Martens closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Not available
Flammable/Explosive limits-upper %:	Not available
Extinguishing media:	Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical. Dry sand. Limestone powder.
Special fire fighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.
Hazardous combustion products:	Ammonia. Oxides of nitrogen. Oxides of carbon. Nitric acid. Aldehydes.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow material to contaminate ground water system.
Clean-up methods:	Keep in suitable and closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling:	Avoid contact with skin and eyes. For operations where eye or face contact could occur, provide safety shower and eyewash fountain. When using, do not eat, drink or smoke.
Storage:	Store in steel containers. Do not store near acids. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products:	Refer to Section 10.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Ensure adequate ventilation, especially in confined areas.
Respiratory protection:	Not normally required.
Skin protection:	Neoprene gloves. Butyl rubber gloves. Nitrile gloves. Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.
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.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Amber
Odor:	Ammoniacal
Vapor pressure:	0.30 mmHg
pH:	Alkaline
Boiling point/range:	Greater than 149°C (300°F)
Melting point/range:	Not available
Specific gravity:	1.01
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Negligible.
Partition coefficient (n-octanol/water):	Not available
VOC content:	<0.026% (Resin and hardener mixed)

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions
Hazardous polymerization:	None under normal processing.
Hazardous decomposition products:	Nitric acid. Ammonia. Oxides of nitrogen. Oxides of carbon. Aldehydes.
Incompatibility:	Acids. Copper. Aluminum. Zinc. Reactive metals. Oxidizing agents.
Conditions to avoid:	Storage with incompatible materials.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Benzyl alcohol 100-51-6	No	No	No
Isophoronediamine 2855-13-2	No	No	No
Diethylene triamine 111-40-0	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Benzyl alcohol 100-51-6	Allergen, Central nervous system, Corrosive, Irritant
Isophoronediamine 2855-13-2	Allergen, Corrosive, Irritant, Lung
Diethylene triamine 111-40-0	Allergen, Eyes, Irritant

12. ECOLOGICAL INFORMATION

Ecological information:	Not available
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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: AMINES, LIQUID, CORROSIVE, N.O.S. (Isophoronediamine / Diethylenetriamine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: III

International Air Transportation (ICAO/IATA):

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Isophoronediamine / Diethylenetriamine)
Hazard class or division: 8
Identification number: UN2735
Packing group: III

WaterTransportation (IMO/IMDG):

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Isophoronediamine / Diethylenetriamine)
Hazard class or division: 8
Identification number: UN2735
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: Not available

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

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

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

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New information added in section(s): 2

Prepared by: Regulatory Affairs

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