

Revision Number: 005.0 Issue date: 08/04/2014

1. PRODUCT AND COMPANY IDENTIFICATION

LOCTITE PC 7228 known as Nordbak IDH number: Product name: 702211

Brush Ceramic - White

Product type: 96443_301000 **Epoxy Hardener** Item number: Restriction of Use: None identified Region: United States

Company address: Contact information: Henkel Corporation Telephone: (860) 571-5100

One Henkel Way MEDICAL EMERGENCY Phone: Poison Control Center Rocky Hill, Connecticut 06067 1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: COMBUSTIBLE LIQUID.

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

MAY CAUSE AN ALLERGIC SKIN REACTION.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED

MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
SKIN CORROSION	1C
SERIOUS EYE DAMAGE	1
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3





Precautionary Statements

Keep away from heat, sparks, open flames, hot surfaces - no smoking. Do not breathe vapors, Prevention:

mist, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. In case of inadequate ventilation wear respiratory

protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off

immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Wash contaminated clothing before reuse. In

case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

Disposal: Dispose of contents and/or container according to Federal. State/Provincial and local

governmental regulations.

4 % of the mixture consists of ingredient(s) of unknown acute toxicity.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Benzyl alcohol	100-51-6	30 - 60	
Formaldehyde amine polymer	Proprietary	30 - 60	
Phenolic acid	Proprietary	5 - 10	
Diethylenetriamine	111-40-0	1 - 5	
Substituted amine	Proprietary	1 - 5	
4,4'-Isopropylidenediphenol	80-05-7	1 - 5	

^{*} Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. 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. Get medical attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, 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.

Symptoms: See Section 11.

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5. FIRE FIGHTING MEASURES

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. Closed containers may

rupture (due to build up of pressure) when exposed to extreme heat.

Hazardous combustion products:

Storage:

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Oxides of carbon. Oxides of nitrogen. Ammonia. Phenolics. Nitric acid. Aldehydes. Nitrosamines. 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.

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

Clean-up methods: Remove all sources of ignition. Immediately contact emergency personnel.

Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a closed container until ready for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to

clean up.

7. HANDLING AND STORAGE

Handling: Do not taste or swallow. Use only with adequate ventilation. Keep container

closed. Prevent contact with eyes, skin and clothing. Do not breathe vapor

and mist. Wash thoroughly after handling. Refer to Section 8.

Store away from heat, sparks, flames, or other sources of ignition. Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials.

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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Benzyl alcohol	None	None	10 ppm (44.20 mg/m3) TWA	None
Formaldehyde amine polymer	None	None	None	None
Phenolic acid	None	None	None	None
Diethylenetriamine	1 ppm TWA (SKIN)	None	None	None
Substituted amine	None	None	None	None
4.4'-Isopropylidenediphenol	None	None	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

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. Safety

showers and eye wash stations should be available.

Skin protection: 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: Liquid Color: Light yellow Odor: Ammoniacal Odor threshold: Not available. pH: Alkaline Vapor pressure: Not available. Boiling point/range: 400 °C (752°F) Melting point/ range: Specific gravity: Not available. 1.0616 Vapor density: Not available.

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

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Evaporation rate:
Solubility in water:
Partially soluble
Partition coefficient (n-octanol/water):
Not available.
Not available.
Not available.

VOC content: < 0.1 %; < 1 g/l (value for resin and hardener together)

Viscosity: Not available.

Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing.

Hazardous decomposition

products:

Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics. Ammonia. Phenolics. Nitrosamines.

Incompatible materials:

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Strong oxidizing agents. Strong reducing agents. Metals. Acids. Strong mineral acids. Strong

bases. Peroxides.

Reactivity: Not available.

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

sources of ignition.

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation: May cause allergic respiratory reaction. These symptoms, which can include chest tightness,

wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to several hours after exposure). May cause dizziness, incoordination, headache, nausea, and

vomiting.

Skin contact: Corrosive to skin. Causes skin burns. May cause allergic skin reaction.

Eye contact: Causes serious eye damage.

Ingestion: May cause burns of mouth and throat if swallowed. Irritation and corrosive action can occur in

the mouth, stomach tissue and digestive tract if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Benzyl alcohol	Oral LD50 (RABBIT) = 1,940 mg/kg Oral LD50 (RAT) = 1,230 - 3,100 mg/kg Oral LD50 (RAT) = 3,100 mg/kg Dermal LD50 (RABBIT) = 2,000 mg/kg Inhalation LC50 (RAT, 8 h) = 1,000 mg/l	Allergen, Central nervous system, Corrosive, Irritant	
Formaldehyde amine polymer	None	No Records	
Phenolic acid	Oral LD50 (RAT) = 891 mg/kg Dermal LD50 (RAT) = > 2 g/kg	Irritant	
Diethylenetriamine	Oral LD50 (RAT) = 1,080 mg/kg Oral LD50 (RAT) = 2.33 g/kg Oral LD50 (RAT) Approximate 1,140 mg/kg	Allergen, Irritant, Eyes	
Substituted amine	None	Irritant, Allergen	
4,4'-Isopropylidenediphenol	Oral LD50 (RAT) = 4,100 mg/kg Oral LD50 (RAT) = 3,300 mg/kg	Allergen, Blood, Irritant, Kidney, Reproductive, Spleen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Benzyl alcohol	No	No	No
Formaldehyde amine polymer	No	No	No
Phenolic acid	No	No	No
Diethylenetriamine	No	No	No
Substituted amine	No	No	No
4,4'-Isopropylidenediphenol	No	No	No

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: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: It is the responsibility of the user to determine if an item is hazardous as

defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics

Leaching Procedure (TCLP) 40 CFR 261.20-24.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

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

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Diethylenetriamine, 4,4-methylenebis-

cyclohexylamine)

Hazard class or division: Identification number: UN 2735 Packing group: Ш

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Diethylenetriamine, 4,4-methylenebis-

cyclohexylamine)

Hazard class or division: Identification number:

UN 2735 Packing group: Ш

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine, 4,4-methylenebis-

cyclohexylamine)

Hazard class or division: Identification number:

UN 2735 Packing group: Ш

REGULATORY INFORMATION 15.

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 minimis CERCLA/SARA Section 302 EHS: None above reporting de minimis CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). 4,4'-Isopropylidenediphenol (CAS# 80-05-7).

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

Canada Regulatory Information

IDH number: 702211

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

Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Sheila Gines, Regulatory Affairs Specialist

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