

## Ceram Clean II

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### PRODUCT AND COMPANY IDENTIFICATION

#### Manufacturer

HarperScientific  
Div. of Harper Corporation of America  
11625 Steele Creek Road  
**Charlotte NC 28273 USA**

Phone: 704-588-3371

Product Name: Ceram Clean II  
Revision Date: 8/04/16  
Version: 3  
SDS Number: FG4631

Emergency Phone (24 hours): 1-336-510-9304

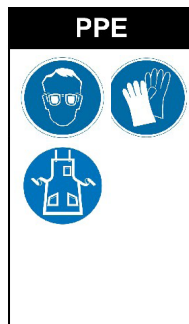
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### HAZARDS IDENTIFICATION

HMIS III: Health = 1, Fire = 1, Physical Hazard = 0

HMIS PPE: C - Safety Glasses, Gloves, Apron

HMIS	
HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C



GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



#### GHS Classifications:

Physical, Flammable Liquids, 4  
Health, Acute toxicity, 4 Oral  
Health, Acute toxicity, 4 Inhalation  
Health, Acute toxicity, 4 Dermal  
Health, Skin corrosion/irritation, 2  
Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Hazard Phrases:

## Ceram Clean II

H227 - Combustible liquid  
H302 - Harmful if swallowed  
H332 - Harmful if inhaled  
H312 - Harmful in contact with skin  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation

### GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+352 - IF ON SKIN: Wash with soap and water.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P332+313 - If skin irritation occurs: Get medical advice/attention.  
P337+313 - Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P403+235 - Store in a well ventilated place. Keep cool.

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### COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients:

Cas#	%	Chemical Name
141-43-5	5-10%	Ethanol, 2-amino-
111-76-2	5-10%	2-Butoxy-1-ethanol

If withheld, the chemical identity and/or exact percentages of the above listed components are being withheld as a trade secret (CBI).

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### FIRST AID MEASURES

**Inhalation:** If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.  
**Skin Contact:** Promptly flush skin with soap and water until all chemical is removed.  
**Eye Contact:** Flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Contact a physician if redness persists.  
**Ingestion:** Rinse mouth with water. Do not induce vomiting. Get medical advice. Do not give anything by mouth to an unconscious or convulsing person.

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### 5 FIRE FIGHTING MEASURES

**Flash Point:** 204 F

**Flash Point Method:** Closed Cup

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable Extinguishing Media: Not applicable.

Hazardous Combustion Products: Not applicable.

Special Exposure Hazards: Unknown

Special protective equipment: Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

### 6 ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment. (See Section 8.)

Environmental Precautionary Measures: Not determined.

Methods and Materials for Containment and Cleanup: Soak up residue with an absorbent such as clay or sand. Place in a non-leaking container for proper disposal according to Federal, State, and Local regulations. Do not discharge into waterways or sewage systems.

### 7 HANDLING AND STORAGE

**Handling Precautions:** Use in a well-ventilated area.

**Storage Requirements:** Keep from freezing. Store between 50 and 80 degrees F.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Use in well ventilated area.

**Personal Protective Equip:** Ethanol, 2-amino- (141-43-5) [5-10%]

Personal protective equipment

Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 480 min  
Material tested: Dermatril P (KCL 743 / Aldrich Z677388, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 240 min  
Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the

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CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

2-Butoxy-1-ethanol (111-76-2) [5-10%]

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min  
Material tested:Camatril (KCL 730 / Aldrich Z677442, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 30 min  
Material tested:Dermatril P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Ethanol, 2-amino- (141-43-5) [5-10%]

Components with workplace control parameters

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TWA	3 ppm	USA. ACGIH Threshold Limit Values (TLV)
Skin & eye irritation		
STEL	6 ppm	USA. ACGIH Threshold Limit Values (TLV)
Skin & eye irritation		
TWA	3 ppm	USA. OSHA - TABLE Z-1 Limits for
	8 mg/m3	Air Contaminants - 1910.1000
STEL	6 ppm	USA. OSHA - TABLE Z-1 Limits for
	15 mg/m3	Air Contaminants - 1910.1000
TWA	3 ppm	USA. Occupational Exposure Limits
	6 mg/m3	(OSHA) - Table Z-1 Limits for Air Contaminants
The value in mg/m3 is approximate.		
TWA	3 ppm	USA. NIOSH Recommended
	8 mg/m3	Exposure Limits
ST	6 ppm	USA. NIOSH Recommended
	15 mg/m3	Exposure Limits

2-Butoxy-1-ethanol (111-76-2) [5-10%]

Components with workplace control parameters

TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)
Eye & Upper Respiratory Tract irritation		
Confirmed animal carcinogen with unknown relevance to humans		
TWA	5 ppm	USA. NIOSH Recommended
	24 mg/m3	Exposure Limits
Potential for dermal absorption		
TWA	50 ppm	USA. Occupational Exposure Limits
	240 mg/m3	(OSHA) - Table Z-1 Limits for Air Contaminants
Skin designation		
The value in mg/m3 is approximate.		
TWA	25 ppm	USA. OSHA - TABLE Z-1 Limits for
	120 mg/m3	Air Contaminants - 1910.1000
Skin notation		

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### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Viscous off-white liquid	<b>Odor:</b>	Citrus
<b>Physical State:</b>	Paste like	<b>Solubility:</b>	no data available
<b>Odor Threshold:</b>	No data available	<b>Freezing/Melting Pt.:</b>	No data available
<b>Spec Grav./Density:</b>	1.1	<b>Flash Point:</b>	No data available
<b>Viscosity:</b>	No data available		

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**Boiling Point:** 100 C  
**Partition Coefficient:** No data available  
**Vapor Pressure:** No data available  
**pH:** 10.7  
**Evap. Rate:** no data available  
**Decomp Temp:** No data available

**Vapor Density:** No data available  
**VOC:** 23%  
**Auto-Ignition Temp:** Not available.  
**UFL/LFL:** No data available

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#### STABILITY AND REACTIVITY

**Stability:** Stable  
**Conditions to Avoid:** no data available  
**Materials to Avoid:** Strong oxidizing agents  
**Hazardous Decomposition:** Carbon Dioxide, Carbon Monoxide  
**Hazardous Polymerization:** Will not occur.

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#### TOXICOLOGICAL INFORMATION

Ethanol, 2-amino- (141-43-5) [5-10%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 1,720 mg/kg

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

LD50 Dermal - rabbit - 1,015 mg/kg

no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: Eyes - rabbit Result: Severe eye irritation

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

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Additional Information:

RTECS: KJ5775000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  
Liver - Irregularities - Based on Human Evidence

2-Butoxy-1-ethanol (111-76-2) [5-10%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 470 mg/kg

LC50 Inhalation - rat - 4 h - 450 ppm Remarks: Behavioral:Ataxia. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

LD50 Dermal - rabbit - 220 mg/kg

LD50 Intraperitoneal - rat - 220 mg/kg

LD50 Intravenous - rat - 307 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Open irritation test

Serious eye damage/eye irritation: Eyes - rabbit Result: Moderate eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: KJ8575000

Human exposure above 200 ppm can be expected to cause narcosis, damage to the kidney and liver and present an abnormal blood picture showing erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings., Central nervous system depression, Headache, narcosis  
Stomach - Irregularities - Based on Human Evidence

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### ECOLOGICAL INFORMATION

Ethanol, 2-amino- (141-43-5) [5-10%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 227 mg/l - 96 h.

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 65 mg/l - 48 h.

other aquatic invertebrates

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 15 mg/l - 72 h.

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

2-Butoxy-1-ethanol (111-76-2) [5-10%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - other fish - 220 mg/l - 96 h.

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 1,815 mg/l - 24 h.

other aquatic invertebrates

Persistence and degradability: no data available

Ratio BOD/ThBOD 88 %

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

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### DISPOSAL CONSIDERATIONS



## Ceram Clean II

Ethanol, 2-amino- (141-43-5) [5-10%]

### Waste treatment methods

Product: This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

2-Butoxy-1-ethanol (111-76-2) [5-10%]

### Waste treatment methods

Product: This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

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### TRANSPORT INFORMATION

USDOT: Non-Regulated

Marine pollutant: No

Poison Inhalation Hazard: No

IATA Regulation Not regulated as Flash Point is greater than 140 F

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### REGULATORY INFORMATION

Component (CAS#) [%] - CODES

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Ethanol, 2-amino- (141-43-5) [5-10%] HAP, MASS, OSHAWAC, PA, TSCA, TXAIR

2-Butoxy-1-ethanol (111-76-2) [5-10%] HAP, MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions

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HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

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**OTHER INFORMATION**

**Author:** Technical Services Department, HarperScientific

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