

KIT - SAFETY DATA SHEET

Product identifier used on the

label:

Kit Name DEVCON® Brushable Ceramic blue

Stock No.: 11765

Other means of identification:

Recommended use of the chemical and restrictions on use:

 $\underline{\textbf{Chemical manufacturer address and telephone number:}}$

Manufacturer Name: ITW Performance Polymers
Address: 30 Endicott Street
Danvers, MA 01923

Component list		
Component A	BRUSHABLE CERAMIC BLUE RESIN	
Component B	CC 4000 Hardener (Modified)	
Kit SDS Revision Date	07/30/2015	

Component A - SDS

SECTION 1: IDENTIFICATION

Product identifier used on the label:

Product Name: BRUSHABLE CERAMIC BLUE RESIN

Other means of identification:

Synonyms: None.

Recommended use of the chemical and restrictions on use:

Product Use/Restriction:

Not applicable.

 $\underline{\hbox{Chemical manufacturer address and telephone number:}}\\$

Manufacturer Name: ITW

Address: 30 Endicott Street
Danvers, MA 01923
General Phone Number: (978) 777-1100

Emergency phone number:

Emergency Phone Number: (800) 424-9300

CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:

 \Diamond

Signal Word: WARNING.

GHS Class: Eye Irritation. Category 2.
Skin Irritation. Category 2.
Skin Sensitization. category 1.

Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.

Hazard Statements: H319 - Causes serious eye irritation. H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. Precautionary Statements:

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously 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.

P321 - Specific treatment (see ... on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up

P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may Eve:

cause lacrimation, conjunctivitis, corneal damage and permanent injury.

Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are

possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this

Inhalation: Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal

pain.

Chronic Health Effects: Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible

tissue destruction.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Conditions:

Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Bisphenol A diglycidyl ether resin	25068-38-6	40 - 50 by weight	
Aluminum oxide	1344-28-1	40 - 50 by weight	
1,4-Cyclohexanedimethanol Diglycidyl Ether	14228-73-0	1 - 10 by weight	
Titanium dioxide	13463-67-7	1 - 10 by weight	
Amorphous silicon dioxide	67762-90-7	1 - 10 by weight	

SECTION 4: FIRST AID MEASURES

Description of necessary measures:

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.Eye Contact:

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Seek immediate medical attention

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give

anything by mouth to an unconscious person

SECTION 5: FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material. Unsuitable extinguishing media: Water or foam may cause frothing.

Sealed containers at elevated temperatures may rupture and spread fire due to polymerization. Heating above 300 deg F in the presence of air may cause slow oxidative decomposition and above Unusual Fire Hazards:

500 deg F may cause polymerization.

Special protective equipment and precautions for fire-fighters:

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent)

and full protective gear.

Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to Fire Fighting Instructions:

minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible,

contain fire run-off water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental precautions:

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

Spill Cleanup Measures:

Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.

Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective

equipment as listed in Section 8.

Reference to other sections:

Pump or shovel to storage/salvage vessels. Other Precautions:

SECTION 7: HANDLING and STORAGE

Precautions for safe handling:

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.

Hygiene Practices: Wash thoroughly after handling.

Special Handling Procedures: Provide appropriate ventilation/ respiratory protection when removing cured product (see Section 10).

Conditions for safe storage, including any incompatibilities:

Storage: Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep

container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Aluminum oxide:

Guideline OSHA: PEL-TWA: 5 mg/m3 Respirable fraction (R) PEL-TWA: 15 mg/m3 Total particulate/dust (T)

<u>Titanium dioxide</u>:

Guideline ACGIH: TLV-TWA: 10 mg/m3

Appropriate engineering controls:

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general

ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance

of the personal protective equipment.

Individual protection measures:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166. Eye/Face Protection:

Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult Skin Protection Description: manufacturer's data for permeability data

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be

permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower

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safety station.

Notes: Only established PEL and TLV values for the ingredients are listed.

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SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance: Viscous. Liquid.

Color: Blue

Slight. odor. Odor: **Boiling Point:** >500°F (260°C) Melting Point: Not determined.

Specific Gravity: 1.8

Solubility: negligible. Vapor Density: >1 (air = 1)

Vapor Pressure: 0.03 mmHg @171°F

Percent Volatile:

Evaporation Rate: <<1 (butyl acetate = 1)

pH: Neutral. Molecular Formula: Mixture Molecular Weight: Mixture

Flash Point: >400°F (204.4°C)

Flash Point Method: Pensky-Martens Closed Cup

Lower Flammable/Explosive Limit: Not determined. Not determined. Upper Flammable/Explosive Limit: Auto Ignition Temperature: Not determined.

VOC Content: 0 a/L

9.2. Other information:

Percent Solids by Weight 100

SECTION 10: STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Sealed containers at elevated temperatures may rupture and spread fire due to polymerization.

Heating above 300 \deg F in the presence of air may cause slow oxidative decomposition and above

500 deg F may cause polymerization.

Conditions To Avoid:

Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Heating resin above 300 F in the presence of air may cause slow oxidative decomposition. Conditions to Avoid:

Incompatible Materials:

Incompatible Materials: Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially

primary and secondary aliphatic amines).

Hazardous Decomposition Products:

Special Decomposition Products: Carbon monoxide, Carbon dioxide

Aldehydes, Formaldehyde Oxides of phosphorus and sulfur Flammable hydrocarbon fragments

Uncontrolled exothermic reactions may cause release of phenolics, and carbon monoxide

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Bisphenol A diglycidyl ether resin:

Administration into the eye - Rabbit Standard Draize test: 100 mg [Mild] Administration into the eye - Rabbit Standard Draize test: 20 mg/24H [Moderate] Eve:

Administration into the eye - Rabbit Standard Draize test: 5 mg/24H [Severe] (RTECS)

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Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >20 mL/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: >1200 mg/kg [Details of toxic Skin:

effects not reported other than lethal dose value] (RTECS)

Oral - Rat LD50 - Lethal dose, 50 percent kill: 10700 uL/kg [Details of toxic effects not reported other Ingestion:

than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 13600 mg/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight

loss or decreased weight gain]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 13.6 gm/kg [Details of toxic effects not reported other

than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 11.4 gm/kg [Details of toxic effects not reported other

Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or

decreased weight gain]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Details of toxic effects not reported other

Oral - Rat LD50 - Lethal dose, 50 percent kill: >1 gm/kg [Details of toxic effects not reported other

Oral - Rat LD50 - Lethal dose, 50 percent kill: 11400 mg/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic (RTECS)

Titanium dioxide:

Chronic Effects: Normal application procedures for this product pose minimal hazard as to the release of respirable

titanium dioxide dust, but grinding or sanding dried films of this product may yield some respirable titanium dioxide. Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials". OSHA does not regulate titanium dioxide as a carcinogen. However, under 29CFR 1910.1200 the SDS must convey the fact that

titanium dioxide is a potential carcinogen to rats.

Carcinogenicity: Animal evidence shows that high concentrations of pigment-grade (powdered) and ultrafine titanium

dioxide dust caused respiratory tract cancer in rats exposed by inhalation

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal:

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local

quidelines.

RCRA Number: Not determined.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Refer to Bill of Lading DOT UN Number: Refer to Bill of Lading

IATA Shipping Name: Refer to Bill of Lading

IATA UN Number: Refer to Bill of Lading

IMDG UN Number: Refer to Bill of Lading IMDG Shipping Name: Refer to Bill of Lading

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Bisphenol A diglycidyl ether resin:

TSCA Inventory Status: Listed Canada DSL: Listed

Aluminum oxide:

TSCA Inventory Status: Listed

Section 313: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

Canada DSL: Listed 1,4-Cyclohexanedimethanol Diglycidyl Ether: TSCA Inventory Status: Listed Canada DSL: Listed

<u>Titanium dioxide</u>:

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Listed TSCA Inventory Status:

Canada DSL: Listed

Amorphous silicon dioxide:

TSCA Inventory Status: Listed Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): D2B

All components of this product are on the Canadian Domestic Substances List.

WHMIS Pictograms:



SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: HMIS Fire Hazard: 1 HMIS Reactivity: HMIS Personal Protection:

Health Hazard	2*
Fire Hazard	1
Reactivity	1
Personal Protection	x

* Chronic Health Effects

SDS Revision Date: March 17, 2015 SDS Revision Notes: **GHS** Update

SDS Format: In accordance to OSHA GHS 1910.1200

SDS Author: Actio Corporation

Disclaimer:

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Component B - SDS

SECTION 1: IDENTIFICATION

Product identifier used on the label:

Product Name: CC 4000 Hardener (Modified)

Other means of identification:

Synonyms: None.

 $\underline{\textit{Recommended use of the chemical and restrictions on use:}}\\$ Product Use/Restriction: Not applicable.

Chemical manufacturer address and telephone number:

Manufacturer Name:

30 Endicott Street Danvers, MA 01923 (978) 777-1100 General Phone Number:

Emergency phone number:

Emergency Phone Number: (800) 424-9300

CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: DANGER

GHS Class: Acute Inhalation Toxicity. Category 3.

Serious Eye Damage. category 1. Skin corrosion. category 1. Skin Sensitization. category 1. Acute Oral Toxicity. Category 4.

Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.

Hazard Statements: H331 - Toxic if inhaled.

H318 - Causes serious eye damage. H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction. H302 - Harmful if swallowed.

H335 - May cause respiratory irritation.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands thoroughly after handling. Precautionary Statements:

P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.

P271 - Ose only outdoors of in a wen-vertified a real.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P311 - Call a POISON CENTER or doctor/physician.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P321 - Specific treatment (see ... on this label).

P330 - Rinse mouth.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Corrosive. Will cause eye burns, permanent tissue damage, and blindness.

Skin: Contact causes severe skin irritation and possible burns. may cause permanent skin damage. Allergic

reactions are possible

May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this

Inhalation: May cause severe respiratory system irritation.

Ingestion: Harmful if swallowed. Corrosive to the gastrointestinal tract.

Chronic Health Effects: Prolonged skin contact causes burns.

Repeated or prolonged inhalation may cause toxic effects.

Signs/Symptoms: Depending on solution concentration, material may be corrosive to skin, mucous membranes and

eyes. Vapors may cause respiratory irritation.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing

Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more Conditions:

susceptible to the effects of this product.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Methyleneoxide, polymer with benzenamine, hydrogenated	135108-88-2	20 - 30 by weight	
Benzyl alcohol	100-51-6	20 - 30 by weight	
Benzene-1,3-Dimethaneamine	1477-55-0	20 - 30 by weight	
Organic acid	No Data	1 - 10 by weight	
4,4'-Methylenebiscyclohexanamine	1761-71-3	1 - 10 by weight	

SECTION 4: FIRST AID MEASURES

Description of necessary measures:

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of Eye Contact:

the eyes by separating the eyelids with fingers. Get immediate medical attention

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing

contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give Inaestion:

anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.

Unsuitable extinguishing media: Water or foam may cause frothing.

Special protective equipment and precautions for fire-fighters:

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent)

and full protective gear.

Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to Fire Fighting Instructions:

minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental precautions:

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Spill Cleanup Measures:

Provide ventilation. Clean up spills immediately observing precautions in the protective equipment

section. After removal, flush spill area with soap and water to remove trace residue. Corrosive. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal

protective equipment as listed in Section 8.

Reference to other sections:

Other Precautions: Pump or shovel to storage/salvage vessels.

SECTION 7: HANDLING and STORAGE

Precautions for safe handling:

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Avoid contact with eyes and skin.

Do not reuse containers without proper cleaning or reconditioning.

Hygiene Practices: Wash thoroughly after handling.

Special Handling Procedures: Provide appropriate ventilation/ respiratory protection when removing cured product (see Section 10).

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep Storage:

container tightly closed when not in use. Do not store in reactive metal containers. Keep away from

acids, oxidizers.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Benzene-1,3-Dimethaneamine:

Guideline ACGIH: TLV-STEL: C 0.1 mg/m3 Skin: Yes.

Appropriate engineering controls:

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Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general **Engineering Controls:**

ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166. Eye/Face Protection:

Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing. Skin Protection Description:

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be

permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower Other Protective:

safety station.

Only established PEL and TLV values for the ingredients are listed. Notes:

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance: Liauid.. Color: Amber.

Odor: mild ammonia like. **Boiling Point:** >400°F (204.4°C) Melting Point: Not determined.

Specific Gravity: 1.05

Solubility: miscible.. Vapor Density: >1 (air = 1) Vapor Pressure: <1 mmHq @68°F

Percent Volatile:

Evaporation Rate: <<1 (butyl acetate = 1)

pH: 10.5-11.5 @ 5 Percent Solution

Molecular Formula: Mixture Molecular Weight: Mixture

Flash Point: 230°F (110°C) Flash Point Method: Closed cup Not determined. Lower Flammable/Explosive Limit: Upper Flammable/Explosive Limit: Not determined. Auto Ignition Temperature: Not determined.

VOC Content: 0 g/L

9.2. Other information:

Percent Solids by Weight 100

SECTION 10: STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Not reported.

Conditions To Avoid:

Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.

Product may slowly corrode copper, aluminum, zinc and galvanized surfaces.

Incompatible Materials:

Incompatible Materials: Oxidizers, acids, and chlorinated organic compounds. Reactive metals (e.g. sodium, calcium, zinc).

Sodium/calcium hypochlorite. Nitrous acid/ oxide, nitrites. Peroxides. Materials reactive with hydroxyl

compounds.

Hazardous Decomposition Products:

Carbon monoxide, Carbon dioxide, Nitrous oxide Nitrous oxide with Water can form corrosive nitric acid Special Decomposition Products:

Ammonia Aldehydes

Flammable hydrocarbon fragments

Nitrosamine Organic acid vapors

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Benzyl alcohol:

Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 2000 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS) Skin:

Inhalation: Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: >500 mg/m3 [Behavioral - Somnolence

(general depressed activity) Behavioral - Ataxia Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)

Inaestion:

Oral - Rat LD50 - Lethal dose, 50 percent kill: 1230 mg/kg [Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Behavioral - Coma]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 1660 mg/kg [Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lungs, Thorax, or Respiration - Respiratory depression]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 1.5 mL/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Benzene-1,3-Dimethaneamine:

Administration into the eye - Rabbit Standard Draize test: 50 ug/24H [Severe] (RTECS) Eve:

Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 2 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS) Skin:

Inhalation: Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: 700 ppm/1H [Sense Organs and Special

Senses (Eye) - Lacrimation Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)

Inaestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 930 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

4,4'-Methylenebiscyclohexanamine:

Administration into the eye - Rabbit Standard Draize test: 10 uL/24H [Severe] (RTECS) Eye:

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous

waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local

guidelines.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Refer to Bill of Lading DOT UN Number: Refer to Bill of Lading

IATA Shipping Name: Refer to Bill of Lading IATA UN Number: Refer to Bill of Lading

IMDG UN Number: Refer to Bill of Lading IMDG Shipping Name: Refer to Bill of Lading

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Methyleneoxide, polymer with benzenamine, hydrogenated :

TSCA Inventory Status: Listed

> DEVCON® Brushable Ceramic blue Revision:: 07/30/2015

Stock No. 11765

Listed Canada DSL:

Benzyl alcohol:

TSCA Inventory Status: Listed Canada DSL: Listed

Benzene-1,3-Dimethaneamine:

Listed TSCA Inventory Status: Canada DSL: Listed

4,4'-Methylenebiscyclohexanamine:

Listed TSCA Inventory Status: Canada DSL: Listed

WHMIS Hazard Class(es): D2B; E; D2A Canadian Regulations.

WHMIS Pictograms:



SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 3* HMIS Fire Hazard: 1 HMIS Reactivity: O **HMIS Personal Protection:**

Health Hazard	3*
Fire Hazard	1
Reactivity	0
Personal Protection	x

* Chronic Health Effects

SDS Revision Date: March 08, 2018

SDS Revision Notes:

SDS Format: In accordance to OSHA GHS 1910.1200

SDS Author:

Disclaimer:

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