



MSDS Name **30 minute Epoxy Panel Bonder**
Manufacturer Name Saint-Gobain Abrasives, Inc.
Stock No. 63642506418
Kit MSDS Revision Date 06/11/2014

Components	
	30 minute Epoxy Panel Bonder (Part A)
	30 minute Epoxy Panel Bonder (Part B)
Saint-Gobain Abrasives, Inc. Product Code : 63642506418	

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: **30 minute Epoxy Panel Bonder (Part A)**
Product Code: 63642506418A
MSDS Manufacturer Number: 63642506418A
Manufacturer Name: Saint-Gobain Abrasives, Inc.
Address: 1 New Bond Street
 Worcester, MA 01615
General Phone Number: 508-795-5000
Emergency Phone Number: 508-795-5000
Website: www.Nortonabrasives.com
MSDS Creation Date: 5/28/2014
MSDS Revision Date: 5/28/2014



HMIS	
Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	X

* Chronic Health Effects

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Polymer	Proprietary	70 - 80 by weight
Glass Spheres	65997-17-3	1.5 - <5 by weight
Gamma-glycidoxypropyltrimethoxysilane	2530-83-8	1.5 - <5 by weight
Glycidyl (C12-C14 Alkyl) Ether	68609-97-2	1.5 - <5 by weight
Hydrophobic silica	67762-90-7	1.5 - <5 by weight
Amorphous Silica, Fused	60676-86-0	1.5 - <5 by weight
Carbon Black	1333-86-4	0.1 - <0.5 by weight
Silica, Crystalline, Cristobal (Cristobalite)	14464-46-1	0.1 - <0.5 by weight
Crystalline silica (Quartz)	14808-60-7	0.1 - <0.5 by weight

SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview:	WARNING! Potential Sensitizer. Irritant.
Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	
Eye:	Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury..
Skin:	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 material.
Inhalation:	Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.
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 4 : FIRST AID MEASURES

Eye Contact:	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.
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

Flash Point:	>212 °F (>100 °C)
Flash Point Method:	Not determined.
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Extinguishing Media:	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
<u>NFPA Ratings:</u>	
NFPA Flammability:	1
NFPA Health:	2
NFPA Reactivity:	1

SECTION 6 : ACCIDENTAL RELEASE MEASURES

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. Corrosive. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.
Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Other Precautions:	Pump or shovel to storage/salvage vessels.

SECTION 7 : HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
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.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

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.
Eye/Face Protection:	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.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult 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 safety station.

EXPOSURE GUIDELINES

Amorphous Silica, Fused:

Guideline ACGIH: ACGIH TLV-TWA 0.1 mg/m³

Guideline OSHA: OSHA PEL-TWA 0.1 mg/m³

Carbon Black:

Guideline ACGIH: TLV-TWA: 3 mg/m³ Inhalable fraction (I)

Silica, Crystalline, Cristobal (Cristobalite):

Guideline ACGIH: TLV-TWA: 0.05 mg/m³ (Respirable)

Guideline OSHA: OSHA-TWA: One half the Quartz PEL [30 mg/m³]/{% SiO₂} + 2]

Crystalline silica (Quartz):

Guideline ACGIH: TLV-TWA: 0.025 mg/m³ (R)

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Color:	Black.
Boiling Point:	Not determined.
Melting Point:	Not determined.
Specific Gravity:	1.1
Solubility:	Insoluble in water.
Vapor Density:	Not determined.
Evaporation Rate:	Not determined.
Flash Point:	>212 °F (>100 °C)
Flash Point Method:	Not determined.
Auto Ignition Temperature:	Not determined.

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
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:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 : TOXICOLOGICAL INFORMATION

Gamma-glycidoxypropyltrimethoxysilane:

RTECS Number:	VV4025000
Eye:	Administration into the eye - Rabbit Standard Draize test: 100 mg [Mild] (RTECS)
Skin:	Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 3970 uL/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Inhalation:	Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: >5300 mg/m ³ /4H [Sense Organs and Special Senses (Eye)-LacrimationLungs, Thorax, or Respiration-Other changes] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 22600 uL/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50 - Lethal dose, 50 percent kill: 7.01 gm/kg [Behavioral-Somnolence (general depressed activity)Behavioral-Coma] (RTECS)

Glycidyl (C12-C14 Alkyl) Ether:

Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 17100 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50 - Lethal dose, 50 percent kill: 19.2 mL/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
------------	---

Amorphous Silica, Fused:

RTECS Number:	VV7328000
Inhalation:	Inhalation - Rat TCLo: 197 mg/m ³ /6H/26W (Intermittent) [Lungs, Thorax, or Respiration - Changes in lung weight] (RTECS)

Carbon Black:

RTECS Number:	FF5800000
Skin:	Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >3 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill: >15400 mg/kg [Behavioral-Somnolence (general depressed activity)] (RTECS)
Carcinogenicity:	Possible-carcinogenic (Crystobalite)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
--------------	--

Environmental Fate: No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal: Do not incinerate. 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: Non regulated.
DOT UN Number: Non regulated.
IATA Shipping Name: Non regulated.
IATA UN Number: Non regulated.

SECTION 15 : REGULATORY INFORMATION

Glass Spheres :

TSCA Inventory Status: Listed
Canada DSL: Listed

Gamma-glycidoxypropyltrimethoxysilane :

TSCA Inventory Status: Listed
Canada DSL: Listed

Glycidyl (C12-C14 Alkyl) Ether :

TSCA Inventory Status: Listed
Canada DSL: Listed

Hydrophobic silica :

TSCA Inventory Status: Listed
Canada DSL: Listed

Amorphous Silica, Fused :

TSCA Inventory Status: Listed
Canada DSL: Listed
EC Number: 262-373-8

Carbon Black :

TSCA Inventory Status: Listed
California PROP 65: Listed: cancer.
Canada DSL: Listed

Silica, Crystalline, Cristobal (Cristobalite) :

TSCA Inventory Status: Listed
State Regulations: Listed in the New Jersey State Right to Know List.
Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL: Listed

Crystalline silica (Quartz) :

TSCA Inventory Status: Listed
Massachusetts: Listed
Pennsylvania: Listed
Canada DSL: Listed
Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.1406(1491)
EC Number: 238-878-4

SECTION 16 : ADDITIONAL INFORMATION

HMIS Fire Hazard: 1
HMIS Health Hazard: 2
HMIS Reactivity: 0
HMIS Personal Protection: X
MSDS Creation Date: 5/28/2014
MSDS Revision Date: 5/28/2014

Copyright © 1996-2011 Actio Software Corporation. All Rights Reserved.

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: **30 minute Epoxy Panel Bonder (Part B)**
Product Code: 63642506418B
MSDS Manufacturer Number: 63642506418B
Manufacturer Name: Saint-Gobain Abrasives, Inc.
Address: 1 New Bond Street
Worcester, MA 01615
General Phone Number: 508-795-5000
Emergency Phone Number: 508-795-5000
Website: www.Nortonabrasives.com
MSDS Creation Date: 5/28/2014
MSDS Revision Date: 5/28/2014



HMIS	
Health Hazard	3
Fire Hazard	1
Reactivity	0
Personal Protection	X

* Chronic Health Effects

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Triethylenetetramine	112-24-3	5 - 10 by weight
Phenol	108-95-2	5 - 10 by weight
Amorphous Silica, Fused	60676-86-0	20 - 30 by weight
Glass spheres	65997-17-3	10 - 15 by weight
2,4,6-Tris (Dimethylaminomethyl)phenol	90-72-2	1.5 - 5 by weight
Imidazole	288-32-4	1.5 - 5 by weight
2-Methyl-1,5-pentanediamine	15520-10-2	1.5 - 5 by weight
Dicyandiamide	461-58-5	1.5 - 5 by weight
Hydrophobic silica	67762-90-7	1 - 1.5 by weight
Silica, Crystalline, Cristobal	14464-46-1	0.1 - 0.5 by weight

SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview: DANGER! Corrosive. Potential Sensitizer. Irritant.
Route of Exposure: Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:
Eye: Corrosive. Will cause eye burns, permanent tissue damage, and blindness.

Skin:	Contact causes severe skin irritation and possible burns. may cause permanent skin damage.
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:	Overexposure may cause eye watering or discomfort, redness and swelling.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system.
Aggravation of Pre-Existing Conditions:	May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

SECTION 4 : FIRST AID MEASURES

Eye Contact:	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.
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

Flash Point:	>212 °F (>100 °C)
Flash Point Method:	Not determined.
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Extinguishing Media:	Use carbon dioxide (CO ₂) or dry chemical when fighting fires involving this material.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
<u>NFPA Ratings:</u>	
NFPA Flammability:	1
NFPA Health:	3
NFPA Reactivity:	1

SECTION 6 : ACCIDENTAL RELEASE MEASURES

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.
Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Other Precautions:	Pump or shovel to storage/salvage vessels.

SECTION 7 : HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
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.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

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.
Eye/Face Protection:	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.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult 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 safety station.

EXPOSURE GUIDELINES

Phenol:

Guideline ACGIH:	Skin: Yes. TLV-TWA: 5 ppm
Guideline OSHA:	PEL-TWA: 5 ppm Skin: Yes.

Amorphous Silica, Fused:

Guideline ACGIH:	ACGIH TLV-TWA 0.1 mg/m ³
Guideline OSHA:	OSHA PEL-TWA 0.1 mg/m ³

Silica, Crystalline, Cristobal:

Guideline ACGIH:	TLV-TWA: 0.05 mg/m ³ (Respirable)
Guideline OSHA:	OSHA-TWA: One half the Quartz PEL [30 mg/m ³]/{% SiO ₂ } + 2]

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Color:	Tan
Boiling Point:	Not determined.
Melting Point:	Not determined.
Specific Gravity:	1.0
Solubility:	Insoluble in water.
Vapor Density:	Not determined.
Evaporation Rate:	Not determined.
Flash Point:	>212 °F (>100 °C)
Flash Point Method:	Not determined.

Auto Ignition Temperature: Not determined.

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Hazardous Polymerization: Not reported.
Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.
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.

SECTION 11 : TOXICOLOGICAL INFORMATION

Triethylenetetramine:

Eye: Administration into the eye - Rabbit Standard Draize test: 49 mg [Severe]
Administration into the eye - Rabbit Standard Draize test: 20 mg/24H [Moderate] (RTECS)
Skin: Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 805 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 2500 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Phenol:

Eye: Administration into the eye - Rabbit Standard Draize test: 5 mg [Severe]
Administration into the eye - Rabbit Rinsed with water: 5 mg/30S [Mild] (RTECS)
Skin: Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: 669 mg/kg [Behavioral-TremorKidney/Ureter/Bladder-HematuriaSkin and Appendages-Cutaneous sensitization, experimental(After topical exposure)]
Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 630 mg/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: 1500 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Inhalation: Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: 316 mg/m3 [Details of toxic effects not reported other than lethal dose value]
Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: 316 mg/m3/4H [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 317 mg/kg [Behavioral-Convulsions or effect on seizure threshold]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 512 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Amorphous Silica, Fused:

RTECS Number: VV7328000
Inhalation: Inhalation - Rat TClO: 197 mg/m3/6H/26W (Intermittent) [Lungs, Thorax, or Respiration - Changes in lung weight] (RTECS)

2,4,6-Tris (Dimethylaminomethyl)phenol:

Eye: Administration into the eye - Rabbit Standard Draize test: 50 ug/24H [Severe]
Administration into the eye - Rabbit Standard Draize test: 50 ug/24H [Severe] (RTECS)
Skin: Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: 1280 mg/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: 1280 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 1200 mg/kg [Peripheral Nerve and Sensation-Flaccid paralysis without anesthesia (usually neuromuscular blockage)Lungs, Thorax, or Respiration-Dyspnea]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 1673 mg/kg [Behavioral-TremorGastrointestinal-Ulceration or bleeding from stomachLiver-Other changes]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 1200 mg/kg [Peripheral Nerve and Sensation-Flaccid paralysis without anesthesia (usually neuromuscular blockage)Lungs, Thorax, or Respiration-Dyspnea]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 1673 mg/kg [Behavioral-TremorGastrointestinal-Ulceration or bleeding from stomachLiver-Other changes] (RTECS)

Imidazole:

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 220 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

2-Methyl-1,5-pentanediamine :

Eye: Administration into the eye - Rabbit Standard Draize test: 0.1 mL [Severe] (RTECS)

Skin: Skin - Human Standard Draize test. : 75 mg/3D-I - [mild](RTECS)
Skin - Rabbit LD50: >5 gm/kg - [Details of toxic effects not reported other than lethal dose value](RTECS)

Inhalation: Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: 2900 mg/m³/1H [Lungs, Thorax, or Respiration-DyspneaGastrointestinal-Hypermotility, diarrhea] (RTECS)

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 1690 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Dicyandiamide:

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: >20000 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal: Do not incinerate. 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.

RCRA Number: None.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Amines, liquid, corrosive, n.o.s. [Triethylenetetramine

DOT UN Number: UN2735

DOT Hazard Class: 8

DOT Packing Group: III

IATA Shipping Name: Amines, liquid, corrosive, n.o.s. [Triethylenetetramine

IATA UN Number: UN2735

IATA Hazard Class: 8

IATA Packing Group: III

IMDG UN NUmber : UN2735

IMDG Shipping Name : Amines, liquid, corrosive, n.o.s. [Triethylenetetramine

IMDG Hazard Class : 8

IMDG Packing Group : III

SECTION 15 : REGULATORY INFORMATION

Trietylenetetramine :

TSCA Inventory Status: Listed

Canada DSL: Listed

Phenol :

TSCA Inventory Status: Listed

Section 302 EHS:	EPCRA (SARA Title III) Section 302 (40 CFR Part 355) Extremely Hazardous Substances (EHS) Threshold Planning Quantity (TPQ) in pounds.: 500/10,000
Section 313:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
Canada DSL:	Listed
<u>Amorphous Silica, Fused :</u>	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
EC Number:	262-373-8
<u>Glass spheres :</u>	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
<u>2,4,6-Tris (Dimethylaminomethyl)phenol :</u>	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
<u>Imidazole :</u>	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
<u>2-Methyl-1,5-pentanediamine :</u>	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
<u>Dicyandiamide :</u>	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
<u>Hydrophobic silica :</u>	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
<u>Silica, Crystalline, Cristobal :</u>	
TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

SECTION 16 : ADDITIONAL INFORMATION

HMIS Fire Hazard:	1
HMIS Health Hazard:	3
HMIS Reactivity:	0
HMIS Personal Protection:	X
MSDS Creation Date:	5/28/2014
MSDS Revision Date:	5/28/2014

Copyright © 1996-2011 Actio Software Corporation. All Rights Reserved.

UPC Number = 63642506418