

Conforms to HCS 2012 - United States

MB90 PANEL BONDING (RESIN)

Section 1. Identification

PRODUCT IDENTIFIER:
PRODUCT NAME: MB90 PANEL BONDING

OTHER MEANS OF IDENTIFICATION:
SDS#: MB90

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:
RECOMMENDED USE: Repair Adhesive/Surfacers

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:
SUPPLIER ADDRESS:

Promax America LLC.

 1910 5TH Avenue

River Grove, IL 60171

EMERGENCY PHONE NUMBER: INFOTRAC - (800)-535-5053

Section 2. Hazards identification

APPEARANCE: Black viscous liquid

PHYSICAL STATE: Liquid

CLASSIFICATION:

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 2

SIGNAL WORD:
DANGER
HAZARD STATEMENTS:

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

May cause genetic defects

Suspected of causing cancer


PRECAUTIONARY STATEMENTS – PREVENTION:

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fumes/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

PRECAUTIONARY STATEMENTS – RESPONSE:

Immediately call a poison center or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Seek medical attention

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Seek medical advice/attention

IN CASE OF FIRE: Use CO₂, dry chemical, or foam for extinction

PRECAUTIONARY STATEMENTS – DISPOSAL:

Dispose of contents/container to an approved waste disposal plant

PRECAUTIONARY STATEMENTS - STORAGE:

Store locked up

Store in a well-ventilated place. Keep cool

OTHER HAZARDS:

Toxic to aquatic life with long lasting effects

UNKNOWN ACUTE TOXICITY:

44% of the mixture consists of ingredients of unknown acute toxicity

Section 3. Composition/information on ingredients

CHEMICAL NAME	CAS NO	WEIGHT-%
Bisphenol A – Epichlorohydrin polymer	25068-38-6	30-60
1,4bis-((2,3-epoxypropoxy)methyl)cyclohexane	14228-73-0	7-13
Fused Silica	60676-86-0	1-10
Synthetic Amorphous Silica	677662-90-7	1-10
Glass Beads	65597-17-3	1-5
(3-Glycidyloxypropyl)trimethoxysilane	2530-83-8	0.5-1.5
Stoddard solvent	8052-41-3	<0.3
Carbon Black	1333-86-4	<0.6
Alkyl Phenol Blocked Polyisocyanate	Proprietary	5-20

Any concentration shown as a range is to protect confidentiality or is due to batch variation. **There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

FIRST AID MEASURES:

GENERAL ADVICE: If exposed or concerned: Get medical advice/attention

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present & easy to do. Continue rinsing. Call a physician.

SKIN CONTACT: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation or rash occurs: Seek medical advice/attention

INHALATION: Remove exposed individuals to fresh air for 20 minutes. Consult a physician/poison center if the individual's condition declines or if symptoms persist

INGESTION: Rinse mouth. Do not induce vomiting. Give two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately

MOST IMPORTANT SYMPTOMS AND EFFECTS:

SYMPTOMS: Symptoms of inhalation may include cough, sneezing, nasal discharge, headache, hoarseness and nose and throat pain. Symptoms of eye contact may include redness, swelling, pain, tearing and blurred or hazy vision. May cause blisters and sores. Abdominal pain, stomach upset, nausea, vomiting and diarrhea.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

NOTES TO PHYSICIAN: Treat symptomatically

Section 5. Fire-fighting measures

EXTINGUISHING MEDIA:

Use fire extinguishers with class B extinguishing agents. Dry chemical. CO2

UNSUITABLE EXTINGUISHING METHOD: Water spray may be ineffective

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Product is not flammable

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Section 6. Accidental release measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PRECAUTIONS: Wear protective clothing as described in Section 8 of this safety data sheet

ENVIRONMENTAL PRECAUTIONS: See section 12 for additional Ecological Information

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

METHODS FOR CONTAINMENT: Prevent further leakage or spillage if safe to do so. Contain with inert material

METHODS FOR CLEAN-UP: Working from around the edges of the spill inward, cover with bentonite, vermiculite or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with water. Spills and releases may have to be reported to Federal and/or local authorities. See section 15.

Section 7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:

ADVICE ON SAFE HANDLING: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in section 8. Wash thoroughly after handling. Avoid breathing vapors or mists. Contaminated work clothing should not be allowed out of the workplace. Carefully vent any internal pressure before removing closure. Avoid contact with skin and eyes. Avoid breathing dust created by cutting, sanding, grinding, or machining. Do not eat, drink or smoke when using this product.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORAGE CONDITIONS: Keep container tightly closed and store in a cool, dry & well-ventilated place. Keep locked up and out of reach of children. Keep away from heat.

INCOMPATIBLE MATERIALS: None known based on information supplied

Section 8. Exposure controls/personal protection

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH IDLH
Fused Silica 60676-86-0	-	(vacated) TWA: 0.1 mg/m ³ Respirable dust: (80)/(%SiO ₂) mg/m ³ TWA TWA: 20 mppcf	-
Glass Beads 65997-17-3	TWA: 1 fiber/cm ³ respirable fibers: length 5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase contrast illumination	-	-

	TWA: 5 mg/m ³ inhalable fraction		
Carbon Black 1333-86-4	TWA: 3mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Stoddard solvent 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	IDLH: 20000 mg/m ³ Ceiling: 1800 mg/m ³ 15 min TWA: 350 mg/m ³

EXPOSURE GUIDELINES:

APPROPRIATE ENGINEERING CONTROLS:

ENGINEERING CONTROLS: Use local exhaust or general dilution ventilation system

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Safety glasses with side-shields. Indirect vented goggles

SKIN & BODY PROTECTION: Consult the glove manufacturer for the most appropriate glove material. Use body protection appropriate for task. Nitrile or Neoprene gloves may afford adequate skin protection.

RESPIRATORY PROTECTION: Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half face-piece or full-face air-purifying respirator with P95 particulate filters

GENERAL HYGIENE CONSIDERATIONS: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling

Section 9. Physical and chemical properties

APPEARANCE:

PHYSICAL STATE: Liquid

APPEARANCE: Black viscous liquid

COLOR: Black

PROPERTY

VALUES:

PH: Not determined

MELTING POINT: Not determined

BOILING POINT: >=35°C / 95°F

FLASH POINT: >93.33°C / >200°F

EVAPORATION RATE: <1

FLAMMABILITY(SOLID/GAS): n/a-liquid

UPPER FLAMMABILITY:	Not determined
LOWER FLAMMABILITY:	Not determined
MATERIAL V.O.C.:	<5mm Hg
VAPOR PRESSURE:	Not determined
VAPOR DENSITY:	Not determined
SPECIFIC GRAVITY:	~1.19
WATER SOLUBILITY:	Negligible
SOLUBILITY IN OTHER SOLVENTS:	Not determined
PARTITION COEFFICIENT:	Not determined
AUTO-IGNITION TEMP.:	Not determined
DECOMPOSITION TEMP.:	Not determined
KINEMATIC VISCOSITY:	Not determined
DYNAMIC VISCOSITY:	>400 centistokes
EXPLOSIVE PROPERTIES:	Not determined
OXIDIZING PROPERTIES:	Not determined
DENSITY:	9.9 lb/gal

Section 10. Stability and reactivity

REACTIVITY:

Not reactive under normal conditions

CHEMICAL STABILITY:

Stable under recommended storage conditions

POSSIBILITY OF HAZARDOUS REACTIONS:

None under normal processing

HAZARDOUS POLYMERIZATION: Hazardous polymerization does not occur

CONDITIONS TO AVOID:

Heat, flames and sparks. Keep out of reach of children

INCOMPATIBLE MATERIALS:

Acids, Amines

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon oxides. Aldehydes

Section 11. Toxicological information

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

PRODUCT INFORMATION:

EYE CONTACT: Causes serious eye irritation

SKIN CONTACT: May cause an allergic skin reaction, causes skin irritation

INHALATION: Avoid breathing vapors or mists

INGESTION: Do not taste or swallow

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Bisphenol A-Epichlorohydrin polymer 25068-38-6	=11400 mg/kg (Rat)	20000 mg/kg (Rabbit)	-
(3-Glycidyoxypropyl)trimethoxysilane 2530-83-8	=22600 µL/kg (Rat)	=3970 µL/kg (Rabbit)	-
Carbon Black	>15400 mg/kg (Rat)	>3 g/kg (Rabbit)	-

INFORMATION ON PHYSICAL, CHEMICAL AND TOXICOLOGICAL EFFECTS:

SYMPTOMS: Please see section 4 of this SDS for symptoms

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

SENSITIZATION: May cause allergic skin reaction

CARCINOGENICITY: Suspected of causing cancer

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
Fused Silica 60676-86-0		Group 3		
Glass Beads 65997-17-3		Group 3		
Carbon Black 1333-86-4	A3	Group 2B		X

NUMERICAL MEASURES OF TOXICITY:

Not determined

UNKNOWN ACUTE TOXICITY: 44% of the mixture consists of ingredients of unknown toxicity

PERSISTENCE/DEGRADABILITY:

Not determined

BIOACCUMULATION:

Not determined

Section 12. Ecological information

ECOTOXICITY:

Toxic to aquatic life with long-lasting effects

CHEMICAL NAME	ALGAE/AQUATIC PLANTS	FISH	TOXICITY TO MICROORGANISMS	CRUSTACEA
Carbon Black 1333-86-4				5600: 24 h Daphnia magna mg/L EC50

PERSISTENCE/DEGRADABILITY:

Not determined

BIOACCUMULATION:

Not determined

MOBILITY:

Not determined

OTHER ADVERSE EFFECTS:

Not determined

Section 13. Disposal considerations

WASTE TREATMENT METHODS:

DISPOSAL OF WASTES: Disposal should be in accordance with applicable regional, national, and local laws and regulations

CONTAMINATED PACKAGING: Disposal should be in accordance with applicable regional, national and local laws and regulations

Section 14. Transport information

NOTE: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

DOT: Not regulated

IATA: Not regulated

IMDG:

MARINE POLLUTANT: This material may meet the definition of a marine pollutant

Section 15. Regulatory information

LEGEND:

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substance List

EINECS/ELINCS – European inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS – Japan Existing and New Chemical Substances

IECSC – China Inventory of Existing Chemical Substances

KECL – Korean Existing and Evaluated Chemical Substances

PICCS – Philippines Inventory of Chemicals and Chemical Substances

US FEDERAL REGULATIONS:

SARA 313:

Acute Health Hazard Yes

Chronic Health Hazard Yes

Sudden Release
Of pressure Hazard No

Reactive Hazard No

Fire Hazard No

US STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

CHEMICAL NAME	CALIFORNIA PROPOSITION 65
Carbon Black – 1333-86-4	Carcinogen

US STATE RIGHT-RO-KNOW REGULATIONS:

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Fused Silica 606-86-0	X	X	
Carbon Black 1333-86-4	X	X	X
Stoddard Solvent 8052-41-3	X	X	X

Section 16. Other information

NFPA:**HEALTH HAZARDS:**

3

FLAMMABILITY:

1

INSTABILITY:

0

SPECIAL HAZARDS:

Not determined

HMIS:**HEALTH HAZARDS:**

Not determined

FLAMMABILITY:

Not determined

PHYSICAL HAZARDS:

Not determined

PERSONAL PROTECTION:

Not determined

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Conforms to HCS 2012 - United States

MB90 PANEL ADHESIVE

Section 1. Identification

PRODUCT IDENTIFIER:
PRODUCT NAME: MB90 PANEL ADHESIVE

OTHER MEANS OF IDENTIFICATION:
SDS#: MB90

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:
RECOMMENDED USE: Sealer/Adhesive

SHEET:
SUPPLIER ADDRESS:

Promax America LLC

 1910 5th Avenue

River Grove, IL 60171

(847) 502-2431

EMERGENCY TELEPHONE NUMBER:
EMERGENCY TELEPHONE (24HR): INFOTRAC -

(800)-535-5053

DETAILS OF THE SUPPLIER OF THE SAFETY DATA

Section 2. Hazards identification

APPEARANCE: Tan viscous liquid

PHYSICAL STATE: Liquid

ODOR: Slightly amine

CLASSIFICATION:

Acute toxicity – oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Reproductive toxicity	Category 2

SIGNAL WORD:

DANGER

HAZARD STATEMENTS:

Harmful if swallowed

Causes skin irritation

Causes serious eye damage

May cause an allergic skin reaction

May cause genetic defects

Suspected of damaging fertility or the unborn child


PRECAUTIONARY STATEMENTS – PREVENTION:

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Avoid breathing dust/fumes/gas/mist/vapors/spray
 Use only outdoors or in a well ventilated area
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves

PRECAUTIONARY STATEMENTS – RESPONSE:

If exposed or concerned: Seek medical advice/attention
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present & safe to do, continue rinsing
 Immediately call a poison center or doctor/physician
 IF ON SKIN: Wash with plenty of soap and water
 Take off contaminated clothing and wash it before reuse
 Seek immediate medical advice/attention
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 IF SWALLOWED: Immediately call a poison center or doctor/physician
 Rinse mouth

PRECAUTIONARY STATEMENTS – STORAGE:

Store locked up

PRECAUTIONARY STATEMENTS – DISPOSAL:

Dispose of contents/container to an approved waste disposal plant

UNKNOWN ACUTE TOXICITY:

54.5% of the mixture consists of ingredients of unknown toxicity

Section 3. Composition/information on ingredients

CHEMICAL NAME	CAS NO	WEIGHT-%
9, 12-Octadecadienoic Acid (Z,Z) dimer, polymer	68541-13-9	15-40
Amine Terminated Liquid Copolymer	68683-29-4	5-25
Fused Silica	60676-86-0	4-10
3, 3[Oxybis(2,1 ethane-diyloxy)]bis-1-propylamine	4246-51-9	2-8
Benzyl alcohol	100-51-6	2-8
Synthetic Amorphous Silica	67762-90-7	1-5
Imidazole	288-32-4	1-5
Bisphenol A	80-05-7	1-5
N-Aminoethyl piperazine	140-31-8	1-5
Nonylphenol	25154-52-3	1-5

Triethylene tetramine	112-24-3	<1
Stoddard solvent	8052-41-3	<0.3
Benzyldimethylamine		<1

Any concentration shown as a range is to protect confidentiality or is due to batch variation. **There are no additional ingredients present that, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

DESCRIPTION OF NECESSARY FIRST AID MEASURES:

GENERAL ADVICE:

If exposed or concerned, seek medical advice/attention

EYE CONTACT:

Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. Seek medical attention

INHALATION:

Remove to fresh air, seek medical attention immediately

SKIN CONTACT:

Remove contaminated clothing. Wash the skin immediately with soap and water. Seek medical attention if irritation persists after washing. Wash contaminated clothing before reuse

INGESTION:

Do not induce vomiting without medical advice. Seek medical attention immediately. Rinse mouth.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

SYMPTOMS:

Symptoms of eye contact may include cloudy appearance of the cornea, chemical burns of severe Pain, tearing, ulcerations, significantly impaired vision or complete loss of vision. Symptoms of skin contact may include localized redness, swelling, itching, intense pain, blistering, ulceration and tissue destruction. Symptoms of inhalation may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Symptoms of ingestion may include severe mouth, throat and abdominal pain; nausea, vomiting and diarrhea; blood in the feces and/or vomitius may also be seen.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

NOTES TO PHYSICIAN:

Treat symptomatically

Section 5. Fire-Fighting Methods

SUITABLE EXTINGUISHING MEDIA:

Use fire extinguishers with class B extinguishing agents. Dry chemical. CO2.

UNSUITABLE EXTINGUISHING MEDIA: Water or foam may cause frothing

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

No specific fire or explosion hazard

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSH/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental release measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**PERSONAL PRECATUIONS:**

Wear protective clothing as described in Section 8 of this safety data sheet

ENVIROMENTAL PRECAUTIONS:

Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:**METHODS FOR CONTAINMENT:**

Prevent further leakage or spillage if safe to do so. Contain with inert material

METHODS FOR CLEAN-UP:

Contain and collect with an inert absorbent and place into an appropriate container for disposal. Spills and releases may have to be reported to Federal and/or local authorities. See section 15. Clean up residue with an appropriate organic solvent.

Section 7. Handling and storage

PRECAUTIONS FOR SAFE HANDLING:**ADVICE ON SAFE HANDLING:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and Understood. Use personal protection recommended in Section 8. Wash thoroughly after handling. Do not breathe dust/fumes/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Carefully vent any internal pressure before removing closure. Avoid contact with skin and eyes. Avoid contact with skin and eyes. Avoid breathing dust created by

cutting, sanding, grinding or machining.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORAGE CONDITIONS:

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of reach of children. Store away from incompatible materials. Protect from direct sunlight.

INCOMPATIBLE MATERIALS:

Strong oxidizing agents.

Section 8. Exposure controls/personal protection

<u>CHEMICAL NAME</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
Fused Silica 60676-86-0	-	(vacated) TWA: 0.1 mg/m ³ respirable dust: (80)/(%SiO ₂) mg/m ³ TWA TWA: 20 mppcf	-
Stoddard solvent 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	IDLH: 20000 mg/m ³ Ceiling: 1800 mg/m ³ 15 min TWA: 350 mg/m ³

APPROPRIATE ENGINEERING CONTROLS:

ENGINEERING CONTROLS: Use a local exhaust or general dilution ventilation system.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

Full face shield. Safety glasses with side shields. Indirect vented goggles

SKIN/BODY PROTECTION:

Consult the glove manufacturer for the most appropriate glove material. Use body protection appropriate for task. Nitrile or Neoprene gloves may afford adequate skin protection.

RESPIRATORY PROTECTION:

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half face-piece or full-face air-purifying respirator with P95 particulate filters.

GENERAL HYGIENE CONSIDERATIONS:

Do not eat, drink, or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

Section 9. Physical and chemical properties

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: Liquid

APPEARANCE: Tan viscous liquid
COLOR: Tan
ODOR: Slight amine
ODOR THRESHOLD: Not determined

PROPERTY:

PH: Not applicable
MELTING POINT: Not applicable
BOILING POINT: $\geq 100^{\circ}\text{C}$ / 230°F
FLASH POINT: $>93^{\circ}\text{C}$ / 200°F
EVAPORATION RATE: <1
FLAMMABILITY (SOLID, GAS): n/a-liquid
UPPER FLAMMABILITY LIMITS: No data available
LOWER FLAMMABILITY LIMITS: No data available
VAPOR PRESSURE: No data available
VAPOR DENSITY: No data available
MATERIAL V.O.C.: No data available
SPECIFIC GRAVITY: ~ 1.07
WATER SOLUBILITY: Negligible
SOLUBILITY IN OTHER SOLVENTS: Not determined
PARTITION COEFFICIENT: Not determined
AUTO-IGNITION TEMPERATURE: Not determined
DECOMPOSITION TEMPERATURE: Not determined
KINEMATIC VISCOSITY: Not determined
DYNAMIC VISCOSITY: >400 centistokes
EXPLOSIVE VISCOSITY: Not determined
OXIDIZING VISCOSITY: Not determined
DENSITY: 8.94 lb/gal

Section 10. Stability and reactivity

REACTIVITY:

Not reactive under normal conditions

CHEMICAL STABILITY:

Stable under recommended storage conditions

POSSIBILITY OF HAZARDOUS REACTIONS:

None under normal processing

CONDITIONS TO AVOID:

Keep out of reach of children

INCOMPATIBLE MATERIALS:

Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon oxides

Section 11. Toxicological information

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

PRODUCT INFORMATION:

EYE CONTACT:

Causes serious eye damage

SKIN CONTACT:

May cause an allergic skin reaction. Causes skin irritation. May be harmful in contact with skin.

INHALATION:

Avoid breathing vapors or mists

INGESTION:

Harmful if swallowed

COMPONENT INFORMATION:

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
2, 4, 6-tri(dimethylaminomethyl)phenol 90-72-2	=100 mg/kg (Rat)	=1280 mg/kg (Rat)	-
3, 3-[Oxybis(2,1-ethane-diyloxy)]bis-1-propylamine 4246-51-9	=4290 µL/kg (Rat)	=2500 µL/kg (Rabbit)	-
Benzyl alcohol 100-51-6	=1230 mg/kg (Rat)	=2000 mg/kg (Rabbit)	=8.8 mg/L (Rat) 4 h
Imidazole 288-32-4	=220 mg/kg (Rat)	-	-
Bisphenol A 80-05-7	=3200 mg/kg (Rat)	=3000 mg/kg (Rabbit)	-
N-Aminoethyl piperazine 140-31-8	=2140 mg/kg (Rat)	=880 mg/kg (Rabbit)	-
Nonylphenol 25154-52-3	=580 mg/kg (Rat)	=2031 mg/kg (Rabbit)	-
Triethylene tetramine 112-24-3	=2500 mg/kg (Rat)	=550 mg/kg (Rabbit)	-
Benzyl dimethylamine 103-83-3	=265 mg/kg (Rat)	=1660 mg/kg (Rabbit)	-

INFORMATION ON PHYSICAL, CHEMICAL AND TOXICOLOGICAL EFFECTS

SYMPTOMS:

Please see section 4 of this SDS for symptoms

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CRHONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:
SENSITIZATION:

May cause an allergic skin reaction

GERM CELL MUTAGENICITY:

May cause genetic defects

CARCINOGENICITY:

Suspected of causing cancer

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
Fused Silica 60676-86-0		Group 3		

REPRODUCTIVE TOXICITY:

Suspected of damaging fertility or the unborn child

UNKNOWN ACUTE TOXICITY:

54.5% of the mixture consists of ingredients of unknown toxicity

Section 12. Ecological information

ECOTOXICITY:

CHEMICAL NAME	ALGAE/AQUATIC PLANTS	FISH	TOXICITY TO MICROORGANISMS	CRUSTACEA
Benzyl alcohol 100-51-6	35: 3 h Anabaena variabilis mg/L EC50	460: 96 h Pimephales proelas mg/L LC50 static 10: 96 h Lepomis macrochirus mg/L LC50 static	EC50=50 mg/L 5 min EC50=63.7 mg/L 15min EC50=63.7 mg/L 5min EC50=71.4 mg/L 30min	23: 48h water flea mg/L EC50
Imidazole 288-32-4	130: 72 h Desmodesmus subspicatus mg/L EC50 82: 96 h Desmodesmus subspicatus mg/L EC50			341.5: 48 h Daphnia magna mg/L EC50
Bisphenol A 80-05-7	2.5: 96 h Pseudokirchneriella subcapitata mg/L EC50	3.6-5.4: 96 h Pimephales promelas mg/L LC50 flow-through 4.0-5.5:		10.2: 48 h Daphnia magna mg/L EC50 3.9: 48 h Daphnia magna mg/L EC50

		96 h Pimephales promelas mg/L LC50 static 4: 96 h Oncorhynchus mykiss mg/L LC50 static 4: 96 h Brachydanio rerio mg/L LC50 static		9.2 – 11.4: 48 h Daphnia magna mg/L EC50 static
N-Aminoethyl piperazine 140-31-8	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	1950-2460: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Poecilia reiculata mg/L LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static		32: 48 h Daphnia magna mg/L EC50
Nonylphenol 25154-52-3	0.41: 96 h Pseudokirchneriella subcapitata mg/L EC50 1.3: 72 h Desmodesmus subspicatus mg/L EC50	0.135: 96 h Pimephales promelas mg/L LC50 flow-through		0.14: 48 h Daphnia magna mg/L EC50 0.17 – 0.21: 48 h Daphnia magna mg/L EC50 Static 0.0874 – 0.124: 48 h Daphnia magna mg/L EC50 semi-static
Triethylene tetramine 112-24-3	2.5: 72 h Desmodesmus subspicatus mg/L EC50 20: 72 h Pseudokirchneriella subcapitata mg/L EC50 3.7: 96 h Pseudokirchneriella subcapitata mg/L EC50	570: 96 h Poecilia reticulata mg/L LC50 semi-static 495: 96 h Pimephales promelas mg/L LC50		31.1: 48 h Daphnia magna mg/L EC50
Benzyldimethylamine 103-83-3		35.8-39.9:96 h Pimephales promelas mg/L LC50 flow-through		

PERSISTENCE/DEGRADABILITY:

Not determined

BIOACCUMULATION:

Not determined

MOBILITY:

CHEMICAL NAME	PARTITION COEFFICIENT
Benzyl alcohol 100-51-6	1.1
Imidazole 288-32-4	-0.02
Bisphenol A 80-05-7	2.2
N-Aminoethyl piperazine 140-31-8	-1.48
Nonylphenol 25154-52-3	3.28
Triethylene tetramine 112-24-3	-1.4

OTHER ADVERSE EFFECTS:

Not determined

Section 13. Disposal considerations

WASTE TREATMENT METHODS:
DISPOSAL OF WASTES:

Disposal should be in accordance with applicable regional, national and local laws and regulations

CONTAMINATED PACKAGING:

Disposal should be in accordance with applicable regional, national and local laws and regulations

US EPA WASTE NUMBER:

CHEMICAL NAME	RCRA	RCRA-BASIS FOR LISTING	RCRA-D SERIES WASTES	RCRA-U SERIES WASTES
2, 4, 6-tri(dimethylaminomethyl)phenol 90-72-2		Included in waste stream: K060		

Section 14. Transport information

NOTE: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

DOT: Not regulated

IATA: Not regulated

IMDG: This material may meet the definition of a marine pollutant

Section 15. Regulatory information

INTERNATIONAL INVENTORIES: Not determined

TSCA: Listed

DSL: Listed

EINECS: Listed

AICS: Listed

LEGEND:

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substance List

EINECS/ELINCS – European inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS – Japan Existing and New Chemical Substances

IECSC – China Inventory of Existing Chemical Substances

KECL – Korean Existing and Evaluated Chemical Substances

PICCS – Philippines Inventory of Chemicals and Chemical Substances

US FEDERAL REGULATIONS:

SARA313:

Acute Health Hazard: yes

Chronic Health Hazard: yes

Reactive Hazard: yes

US STATES REGULATIONS: This product contains the following Proposition 65 chemicals

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Fused silica 60676-86-0	X	X	
Benzyl alcohol 100-51-6		X	X
Bisphenol A 80-05-7	X	X	X
N-Aminoethyl piperazine 140-31-8	X	X	X
Nonylphenol		X	X

25154-52-3

Triethylene tetramine 112-24-3	X		X		X
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Stoddard solvent 8052-41-3	X		X		X
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Benzyldimethylamine 103-83-3	X				
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Section 16. Other information

<u>NFPA:</u>	HEALTH HAZARDS	FLAMMABILITY	INSTABILITY	SPECIAL HAZARDS
	3	1	0	None

<u>HMS:</u>	HEALTH HAZARDS	FLAMMABILITY	PHYSICAL HAZARDS	PERSONAL PROTECTION
	Not determined	Not determined	Not determined	Not Determined

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.