



# SAFETY DATA SHEET

## 1. Identification

<b>Material Name:</b>	Sewer Shield® 100 SATURANT PART A 5 GL PL	
<b>Material:</b>	ECA4381205421	
<b>Recommended Use and Restriction on Use</b>		
	<b>Recommended Use:</b>	Sealant
	<b>Restrictions on Use:</b>	Not Known
<b>Manufacturer/Importer/Supplier/Distributor Information</b>	Environmental Coatings LLC 4702 E Virginia Street Mesa, Arizona 85215 US	
<b>Contact Person:</b>	Chemtrec	
<b>Telephone:</b>	480-984-7608	
<b>Emergency Telephone Number:</b>	1-800-424-9300	

## 2. Hazard Identification

<b>Hazard Classification</b>			
<b>Health Hazards</b>			
	<b>Skin Sensitizer</b>	Category 1	
	<b>Germ Cell Mutagenicity</b>	Category 2	
	<b>Carcinogenicity</b>	Category 2	
<b>Unknown Toxicity – Health</b>			
		Acute Toxicity, Oral	80.87%
		Acute Toxicity, Dermal	86.88%
		Acute Toxicity, Inhalation, Vapor	100%
		Acute Toxicity, Inhalation, Dust, or Mist	86.94%
<b>Unknown Toxicity – Environment</b>			
		Acute Hazards to the Aquatic Environment	100%
		Chronic Hazards to the Aquatic Environment	100%
<b>Label Elements</b>			
	<b>Hazard Symbol:</b>		
	<b>Signal Word:</b>	Warning	
	<b>Hazard Statement:</b>	May Cause an Allergic Skin Reaction. Suspected of Causing Genetic Defects. Suspected of Causing Cancer.	
	<b>Precautionary Statement:</b>		
	<b>Prevention:</b>	Avoid breathing dust/fume/gas/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face	



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		protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
	<b>Response:</b>	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see this label). Wash contaminated clothing before reuse.
	<b>Storage:</b>	Store locked up.
	<b>Disposal:</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification:</b>		None.

### 3. Composition/Information on Ingredients

Mixtures	Chemical Identity	CAS number	Content in percent [%]*
	o-Cresyl Glycidyl Ether	2210-79-9	10 – 30%
	Titanium Dioxide	13463-67-7	5 - 10%

\*All Concentrations are percent by Weight unless ingredient is a gas. Gas concentrations are in percent by volume

### 4. First-aid Measures

<b>Ingestion:</b>	Call a POISON CENTER/doctor/.../if you feel unwell. Rinse Mouth.
<b>Inhalation:</b>	Move to fresh air.
<b>Skin Contact:</b>	Get medical attention if symptoms occur. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.
<b>Eye Contact:</b>	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.
<b>Most Important Symptoms/Effects, Acute and Delayed</b>	
<b>Symptoms:</b>	May cause skin and eye irritation.
<b>Indication of Immediate Medical Attention and Special Treatment Needed</b>	
<b>Treatment:</b>	Symptoms may be delayed.

### 5. Fire-Fighting Measures

<b>General Fire Hazards:</b>	No unusual fire or explosion hazards noted.	
<b>Suitable (and unsuitable) Extinguishing Media</b>		
	Suitable Extinguishing Media:	Use fire-extinguishing media appropriate for surrounding materials.
	Unsuitable Extinguishing Media:	Do not use water jet as an extinguisher, as this will spread the fire.
	Specific Hazards Arising From the Chemical:	During fire, gases hazardous to health may be formed.
<b>Special Protective Equipment and Precautions for Firefighters</b>		
	Special Fire Fighting	No data available.



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	Procedures:	
	Special Protective Equipment for Fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire

## 6. Accidental Release Measures

<b>Personal Precautions, protective equipment and emergency procedures:</b>	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
<b>Methods and material for containment and cleaning up:</b>	Dam and absorb spillages with sand, earth, or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
<b>Notification procedures</b>	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
<b>Environmental precautions</b>	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

## 7. Handling and Storage

<b>Precautions for Safe Handling</b>	Do not handle until all safety precautions have been read and understood. Obtain Special instructions before use. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including and incompatibilities:</b>	Store locked up.

## 8. Exposure Controls/Personal Protection

Control Parameters				
Occupational Exposure Limits				
	Chemical Identity	Type	Exposure Limit Values	Source
	Titanium Dioxide	TWA	10 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (2011)
	Titanium Dioxide – Total Dust.	PEL	15 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Chemical Name	Type	Exposure Limit Values	Source
	Titanium Dioxide – Total Dust.	TWA	10 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	Titanium Dioxide –	TWA	3 mg/m <sup>3</sup>	Canada. British Columbia



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	Respirable Fraction.			OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	Titanium Dioxide	TWAEV	10 mg/m <sup>3</sup>	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	Titanium Dioxide – Total Dust.	TWA	10 mg/m <sup>3</sup>	Canada. Quebec OELs. (Ministry of Labor – Regulation Respecting the Quality of the Work Environment) (12 2008)
<b>Appropriate Engineering Controls</b>		Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.		
<b>Individual Protection Measures, Such as Personal Protective Equipment</b>				
<b>General Information:</b>		Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.		
<b>Eye/Face Protection:</b>		Wear safety glasses with side shields (or goggles).		
<b>Skin Protection</b>				
<b>Hand Protection:</b>		Use suitable protective gloves if risk of skin contact.		
<b>Other:</b>		Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.		
<b>Respiratory Protection:</b>		In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.		
<b>Hygiene Measures:</b>		Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.		

## 9. Physical and Chemical Properties

<b>Appearance</b>		
	Physical State:	Liquid
	Form:	Liquid
	Color:	Tan
<b>Odor:</b>		Mild
<b>Odor Threshold:</b>		No data available.
<b>pH:</b>		No data available.
<b>Melting Point/Freezing Point:</b>		No data available.



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<b>Initial Boiling Point and Boiling Range:</b>	No data available.
<b>Flash Point:</b>	No data available.
<b>Evaporation Rate:</b>	Slower than Ether
<b>Flammability (Solid, Gas):</b>	No
<b>Upper/Lower Limit on Flammability or Explosive Limits</b>	
Flammability Limit – Upper (%):	No data available.
Flammability Limit – Lower (%):	No data available.
Explosive Limit – Upper (%)	No data available.
Explosive Limit – Lower (%)	No data available.
<b>Vapor Pressure:</b>	No data available.
<b>Vapor Density:</b>	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
<b>Relative Density:</b>	1.28
<b>Solubility(ies)</b>	
Solubility in Water:	Insoluble in water.
Solubility (other):	No data available.
<b>Partition Coefficient (n-Octanol/Water):</b>	No data available.
<b>Auto-Ignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.

## 10. Stability and Reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	No data available.
<b>Conditions to Avoid:</b>	Avoid heat or contamination.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	Thermal Decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11. Toxicological Information

<b>Information on Likely routes of Exposure</b>		
<b>Ingestion:</b>		May be ingested by accident. Ingestion may cause irritation and malaise.
<b>Inhalation:</b>		In high concentrations, vapor, fumes or mists may irritate nose, throat and mucus membranes.
<b>Skin Contact:</b>		May be harmful in contact with skin. May cause an allergic skin reaction.
<b>Eye Contact:</b>		Eye contact is possible and should be avoided.
<b>Information on Toxicological Effects</b>		
<b>Acute Toxicity (List all Possible Routes of Exposure)</b>		
<b>Oral Product:</b>		ATEmix: 6,996.45 mg/kg
<b>Dermal Product:</b>		ATEmix: 2,028.42 mg/kg
<b>Inhalation Product:</b>		No data available.
<b>Repeated Dose Toxicity Product:</b>		No data available.
<b>Skin Corrosion/Irritation Product:</b>		No data available.
<b>Specified Substance(s):</b>		
	o-Cresyl glycidyl ether	In vivo (Rabbit): Experimental result, Key study



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		Titanium dioxide	In vivo (Rabbit): Experimental result, Supporting study
	<b>Serious Eye Damage/Eye Irritation Product:</b>		No data available.
	<b>Specified Substance(s):</b>		
		<b>Titanium Dioxide</b>	In vivo (Rabbit, 24 – 72 hrs): Not irritating
	<b>Respiratory or Skin Sensitization Product:</b>		No data available.
	<b>Carcinogenicity Product:</b>		Suspected of causing cancer.
	<b>IARC Monographs on the evaluation of Carcinogenic Risks to Humans:</b>		
		<b>Titanium Dioxide</b>	Overall evaluation: Possibly carcinogenic to humans.
	<b>US national Toxicology Program (NTP) Report on Carcinogens:</b>		
	No carcinogenic components identified		
	<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):</b>		
	No carcinogenic components identified		
	<b>Germ Cell Mutagenicity</b>		
		In Vitro Product:	No data available.
		In Vivo Product:	No data available.
	<b>Reproductive Toxicity Product:</b>		No data available.
	<b>Reproductive Toxicity Product:</b>		No data available.
	<b>Specific Target Organ Toxicity – Single Exposure Product:</b>		No data available.
	<b>Specific Target Organ Toxicity – Repeated Exposure Product:</b>		No data available.
	<b>Aspiration Hazard Product:</b>		No data available.
	<b>Other Effects:</b>		No data available.

## 12. Ecological Information

<b>Eco-Toxicity:</b>			
<b>Acute Hazards to the Aquatic Environment:</b>			
	<b>Fish Product:</b>	No data available.	
	<b>Aquatic Invertebrates Product:</b>	No data available.	
<b>Chronic Hazards to the Aquatic Environment:</b>			
	<b>Fish Product:</b>	No data available.	
	<b>Specified Substance(s):</b>		
	<b>Titanium Dioxide</b>	ED 0 (Phoxinus phoxinus, 30 d): >= 1,000 mg/l Experimental result, Supporting study LC 10 (Oncorhynchus mykiss, 28 d): 0.981 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Oncorhynchus mykiss, 28 d): 7.31 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 1 (Oncorhynchus mykiss, 28 d): 0.191 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l Experimental result, Supporting study	
	<b>Aquatic Invertebrates Product:</b>	No data available.	



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	<b>Toxicity to Aquatic Plants Product:</b>	No data available.	
<b>Persistence and Degradability</b>			
	<b>Biodegradation Product:</b>	No data available.	
	<b>BOD/COD Ratio Product:</b>	No data available.	
<b>Bioaccumulative Potential Bioconcentration Factor (BCF) Product:</b>		No data available.	
	<b>Partition Coefficient n-octanol / Water (Log Kow) Product:</b>	No data available.	
<b>Mobility in Soil:</b>		No data available.	
<b>Other Adverse Effects:</b>		No data available.	

### 13. Disposal Considerations

<b>Disposal Instructions:</b>	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Contaminated Packaging:</b>	No data available.

### 14. Transport Information

<b>TDG:</b>	Not Regulated
<b>CFR/DOT:</b>	Not Regulated
<b>IMDG:</b>	Not Regulated

### 15. Regulatory Information

<b>US Federal Regulations</b>	
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	
None present or none present in regulated quantities.	
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	
None present or none present in regulated quantities.	
<b>CERCLA Hazardous Substance List (40 CFR 302.4):</b>	
<b>Chemical Identity</b>	<b>Reportable Quantity</b>
Methanol	5000 LBS
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>	
<b>Hazard Categories</b>	
<b>Immediate (Acute) Health Hazards</b>	
<b>Delayed (Chronic) Health Hazards</b>	
<b>SARA 302 Extremely Hazardous Substance</b>	
None present or none present in regulated quantities.	
<b>SARA 304 Emergency Release Notification</b>	
<b>Chemical Identity</b>	<b>Reportable Quantity</b>
Methanol	5000 LBS
<b>SARA 311/312 Hazardous Chemical</b>	



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	Chemical Identity	Threshold Planning Quantity
	o-Cresyl Glycidyl Ether	500 LBS
	Titanium Dioxide	500 LBS
<b>SARA 313 (TRI Reporting)</b>		None present or none present in regulated quantities.
<b>Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)</b>		
None present or none present in regulated quantities.		
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):</b>		
None present or none present in regulated quantities.		
<b>US State Regulations</b>		
<b>US. California Proposition 65</b>		
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.		
<b>US. New Jersey Worker and Community Right-to-Know Act</b>		
<b>Chemical Identity</b>		
Titanium Dioxide		
<b>US. Massachusetts RTK –Substance List</b>		
<b>Chemical Identity</b>		
Titanium Dioxide		
<b>US. Pennsylvania RTK – Hazardous Substances</b>		
<b>Chemical Identity</b>		
Titanium Dioxide		
<b>US. Rhode Island RTK</b>		
No ingredient regulated by RI Right-to-Know Law present.		
<b>Other Regulations:</b>		
When appropriately mixed with other part, product has a VOC less water and exempt solvent of:		170 g/l
<b>Inventory Status:</b>		
<b>Australia AICS:</b>		One or more components in this product are not listed on or exempt from inventory.
<b>Canada DSL Inventory List:</b>		All components in this product are listed on or exempt from the inventory.
<b>EINECS, ELINCS or NLP:</b>		One or more components in this product are not listed on or exempt from the Inventory.
<b>Japan (ENCS) List:</b>		One or more components in this product are not listed on or exempt from the Inventory.
<b>China Inv. Existing Chemical Substances:</b>		One or more components in this product are not listed on or exempt from the Inventory.
<b>Korea Existing Chemicals Inv. (KECI):</b>		One or more components in this product are not listed on or exempt from the Inventory.
<b>Canada NDSL Inventory:</b>		One or more components in this product are not listed on or exempt from the Inventory.
<b>Philippines PICCS:</b>		One or more components in this product are not listed on or exempt from the Inventory.
<b>US TSCA Inventory:</b>		All components in this product are listed on or exempt from the Inventory.
<b>New Zealand Inventory of Chemicals:</b>		One or more components in this product are not listed on or exempt from the Inventory.
<b>Japan ISHL Listing:</b>		One or more components in this product are not listed on or exempt from the Inventory.





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<b>Japan Pharmacopoeia Listing:</b>		One or more components in this product are not listed on or exempt from the Inventory.
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## 16. Other Information, Including Date of Preparation or Last Revision

<b>Revision Date:</b>	December 4, 2017
<b>Version #:</b>	1.0
<b>Further Information:</b>	No data available.
<b>Disclaimer:</b>	For Industrial use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



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## 1. Identification

<b>Material Name:</b>	Sewer Shield® 100 Saturant Part B 5 GL PL		
<b>Material:</b>	ECB4381205		
<b>Recommended Use and Restriction on Use</b>			
	<b>Recommended Use:</b>	Curative	
	<b>Restrictions on Use:</b>	Not Known	
<b>Manufacturer/Importer/Supplier/Distributor Information</b>	Environmental Coatings LLC 4702 E Virginia Street Mesa, Arizona 85215 US		
<b>Contact Person:</b>	Chemtrec		
<b>Telephone:</b>	480-984-7608		
<b>Emergency Telephone Number:</b>	1-800-424-9300		

## 2. Hazard Identification

<b>Hazard Classification</b>			
	<b>Health Hazards</b>		
		Acute Toxicity (Inhalation – vapor)	Category 4
		Serious Eye Damage/Eye Irritation	Category 2A
		Skin Sensitizer	Category 1
		Toxic to Reproduction	Category 2
	<b>Unknown Toxicity – Health</b>		
		Acute Toxicity, Oral	0%
		Acute Toxicity, Dermal	0.025%
		Acute Toxicity, Inhalation, Vapor	52.73%
		Acute Toxicity, Inhalation, Dust, or Mist	52.73%
<b>Label Elements</b>			
	<b>Hazard Symbol:</b>		
	<b>Signal Word:</b>	Warning	
	<b>Hazard Statement:</b>	May cause an allergic skin reaction.	
		Causes serious eye irritation.	
		Harmful if inhaled.	
		Suspected of damaging fertility or the unborn child.	
	<b>Precautionary Statement:</b>		
	<b>Prevention:</b>	Avoid breathing dust/fume/gas/vapors/spray. Use only outdoors	



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		or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
	<b>Response:</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
		IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists; Get medical advice/attention.
		IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
		Call a POISON CENTRE/doctor/ if you feel unwell. Specific treatment (see this label). Wash contaminated clothing before reuse.
	<b>Storage:</b>	Store locked up.
	<b>Disposal:</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification:</b>		None.

### 3. Composition/Information on Ingredients

Mixtures	Chemical Identity	CAS number	Content in percent (%)*
	Benzyl	100-51-6	25 - <50%
	1,2-Cyclohexanediamine	694-83-7	10 - <25%
	Bisphenol A	80-05-7	1 - <3%

\*All Concentrations are percent by Weight unless ingredient is a gas. Gas concentrations are in percent by volume

### 4. First-aid Measures

<b>Ingestion:</b>	Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.
<b>Inhalation:</b>	Move to fresh air.
<b>Skin Contact:</b>	If skin irritation occurs: Get medical advice/attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.
<b>Eye Contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	
<b>Symptoms:</b>	May cause skin and eye irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	
<b>Treatment:</b>	Symptoms may be delayed.

### 5. Fire-Fighting Measures

<b>General Fire Hazards:</b>	No unusual fire or explosion hazards noted.
<b>Suitable (and unsuitable) Extinguishing Media</b>	
<b>Suitable Extinguishing Media:</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Unsuitable Extinguishing Media:</b>	Do not use water jet as an extinguisher, as this will spread the fire.



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	<b>Specific Hazards Arising From the Chemical:</b>	During fire, gases hazardous to health may be formed.
<b>Special Protective Equipment and Precautions for Firefighters</b>		
	<b>Special Fire Fighting Procedures:</b>	No data available.
	<b>Special Protective Equipment for Fire-fighters:</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. Accidental Release Measures

<b>Personal Precautions, protective equipment and emergency procedures:</b>	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
<b>Methods and material for containment and cleaning up:</b>	Dam and absorb spillages with sand, earth, or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
<b>Notification procedures</b>	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
<b>Environmental precautions</b>	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

## 7. Handling and Storage

<b>Precautions for Safe Handling</b>	Wash hands thoroughly after handling. Avoid contact with eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including and incompatibilities:</b>	Store locked up.

## 8. Exposure Controls/Personal Protection

<b>Control Parameters</b>			
	<b>Occupational Exposure Limits</b>		
		None of the components have assigned exposure limits.	
	<b>Appropriate Engineering Controls</b>	Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.	
<b>Individual Protection Measures, Such as Personal Protective Equipment</b>			
<b>General Information:</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.		
<b>Eye/Face Protection:</b>	Wear safety glasses with side shields (or goggles).		
<b>Skin Protection</b>			



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	Hand Protection:	Use suitable protective gloves if risk of skin contact.
	Other:	Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
	Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
	Hygiene Measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

## 9. Physical and Chemical Properties

<b>Appearance</b>		
	<b>Physical State:</b>	Liquid
	<b>Form:</b>	Liquid
	<b>Color:</b>	Amber
<b>Odor:</b>		Mild pungent
<b>Odor Threshold:</b>		No data available.
<b>pH:</b>		No data available.
<b>Melting Point/Freezing Point:</b>		No data available.
<b>Initial Boiling Point and Boiling Range:</b>		No data Available.
<b>Flash Point:</b>		> 93 C > 200 F (Setaflash Closed Cup)
<b>Evaporation Rate:</b>		Slower than Ether
<b>Flammability (Solid, Gas):</b>		No
<b>Upper/Lower Limit on Flammability or Explosive Limits</b>		
	<b>Flammability Limit – Upper (%):</b>	No data available.
	<b>Flammability Limit – Lower (%):</b>	No data available.
	<b>Explosive Limit – Upper (%)</b>	No data available.
	<b>Explosive Limit – Lower (%)</b>	No data available.
<b>Vapor Pressure:</b>		No data available.
<b>Vapor Density:</b>		Vapors are heavier than air and may travel along the floor and in the bottom of containers.
<b>Relative Density:</b>		1.06
<b>Solubility(ies)</b>		
	<b>Solubility in Water:</b>	Practically Insoluble
	<b>Solubility (other):</b>	No data available.
<b>Partition Coefficient (n-Octanol/Water):</b>		No data available.
<b>Auto-Ignition Temperature:</b>		No data available.
<b>Decomposition Temperature:</b>		No data available.
<b>Viscosity:</b>		No data available.

## 10. Stability and Reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	No data available.



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<b>Conditions to Avoid:</b>	Avoid heat or contamination.
<b>Incompatible Materials:</b>	Avoid contact with acids
<b>Hazardous Decomposition Products:</b>	Thermal Decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11. Toxicological Information

<b>Information on Likely routes of Exposure</b>		
	<b>Ingestion:</b>	May be harmful if swallowed.
	<b>Inhalation:</b>	In high concentrations, vapor, fumes or mists may irritate nose, throat and mucus membranes.
	<b>Skin Contact:</b>	May be harmful in contact with skin. Causes mild skin irritation. May cause an allergic skin reaction.
	<b>Eye Contact:</b>	Causes serious eye irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>		
	<b>Ingestion:</b>	No data available.
	<b>Inhalation:</b>	No data available.
	<b>Skin Contact:</b>	No data available.
	<b>Eye Contact:</b>	No data available.
<b>Information on Toxicological Effects</b>		
<b>Acute Toxicity (List all Possible Routes of Exposure)</b>		
	<b>Oral Product:</b>	ATEmix: 2,194.95 mg/kg
	<b>Dermal Product:</b>	ATEmix: 2,947.77 mg/kg
	<b>Inhalation Product:</b>	ATEmix: 11 mg/l
	<b>Repeated Dose Toxicity Product:</b>	No data available.
	<b>Skin Corrosion/Irritation Product:</b>	No data available.
	<b>Serious Eye Damage/Eye Irritation Product:</b>	No data available.
<b>Specified Substance(s):</b>		
	Benzyl Alcohol	In vivo (Rabbit): Not irritant Experimental result, Key study
	1,2-Cyclohexanediamine	In vivo (Rabbit): Category 1A Experimental result, Key study
	<b>Serious Eye Damage/Eye Irritation</b>	No data available.
	<b>Respiratory or Skin Sensitization Product:</b>	No data available.
	<b>Carcinogenicity Product:</b>	Suspected of causing cancer.
<b>IARC Monographs on the evaluation of Carcinogenic Risks to Humans:</b>		
	No carcinogenic components identified	
<b>US national Toxicology Program (NTP) Report on Carcinogens:</b>		
	No carcinogenic components identified	
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):</b>		
	No carcinogenic components identified	
<b>Germ Cell Mutagenicity</b>		
	<b>In Vitro Product:</b>	No data available.
	<b>In Vivo Product:</b>	No data available.
	<b>Reproductive Toxicity Product:</b>	Suspected of damaging fertility or the unborn child.
	<b>Specific Target Organ Toxicity – Single Exposure Product:</b>	No data available.
	<b>Specific Target Organ Toxicity – Repeated Exposure Product:</b>	No data available.
	<b>Aspiration Hazard Product:</b>	No data available.



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<b>Other Effects:</b>	No data available.
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## 12. Ecological Information

<b>Eco-Toxicity:</b>			
	<b>Acute Hazards to the Aquatic Environment:</b>		
<b>Fish Product:</b>	No data available.		
	<b>Specified Substance(s):</b>		
	<b>Benzyl Alcohol</b>	LC 50 (Pimephales promelas), 96h): 460 mg/l Mortality	
	<b>Bisphenol A</b>	LC 50 (Pimephales promelas), 96h): 3.6 – 5.4 mg/l Mortality	
	<b>Aquatic Invertebrates Product:</b>		
	<b>Specified Substance(s):</b>		
	<b>Benzyl Alcohol</b>	EC 50 (Water flea (Daphnia Magna), 48 h): 230 mg/l Experimental Result, Key study	
	<b>Bisphenol A</b>	EC 50 (Water flea (Daphnia Magna), 48 h): 9.2 – 11.4 mg/l Intoxication	
	<b>Chronic Hazards to the Aquatic Environment:</b>		
	<b>Fish Product:</b>	No data available.	
	<b>Aquatic Invertebrates Product:</b>	No data available.	
	<b>Toxicity to Aquatic Plants Product:</b>	No data available.	
	<b>Persistence and Degradability</b>		
	<b>Biodegradation Product:</b>	No data available.	
	<b>BOD/COD Ratio Product:</b>	No data available.	
	<b>Bioaccumulative Potential Bioconcentration Factor (BCF) Product:</b>		
	<b>Partition Coefficient n-octanol / Water (Log Kow) Product:</b>	No data available.	
		<b>Specified Substance(s):</b>	
		Benzyl Alcohol	Log Kow: 1.10
		Bisphenol A	Log Kow: 3.32
	<b>Mobility in Soil:</b>		
	No data available.		
	<b>Other Adverse Effects:</b>		
	No data available.		

## 13. Disposal Considerations

Disposal Instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.

## 14. Transport Information

<b>TDG:</b>	
	UN1760, CORROSIVE LIQUID, N.O.S. (Alkaline Amine), 8, PG III
<b>CFR/DOT:</b>	
	UN1760, CORROSIVE LIQUID, N.O.S. (Alkaline Amine), 8, PG III



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<b>IMDG:</b>	
	UN1760, CORROSIVE LIQUID, N.O.S. (Alkaline Amine), 8, PG III
<b>Further Information:</b>	
	The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

## 15. Regulatory Information

<b>US Federal Regulations</b>		
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>		
		None present or none present in regulated quantities.
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>		
		None present or none present in regulated quantities.
<b>CERCLA Hazardous Substance List (40 CFR 302.4):</b>		
	Chemical Identity	Reportable Quantity
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>		
<b>Hazard Categories</b>		
		Immediate (Acute) Health Hazards
		Delayed (Chronic) Health Hazards
<b>SARA 302 Extremely Hazardous Substance</b>		
		None present or none present in regulated quantities.
<b>SARA 304 Emergency Release Notification</b>		
	<b>Chemical Identity</b>	<b>Reportable Quantity</b>
	Bisphenol A	
<b>SARA 311/312 Hazardous Chemical</b>		
	<b>Chemical Identity</b>	<b>Threshold Planning Quantity</b>
	Benzyl Alcohol	10000 LBS
	1,2-Cyclohexanediamine	10000 LBS
	Bisphenol A	10000 LBS
<b>SARA 313 (TRI Reporting)</b>		
	<b>Chemical Identity</b>	
	Bisphenol A	
<b>Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)</b>		
		None present or none present in regulated quantities.
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):</b>		
		None present or none present in regulated quantities.
<b>US State Regulations</b>		
<b>US. California Proposition 65</b>		
		This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.
	Bisphenol A	Female reproductive toxin. 06 2015
<b>US. New Jersey Worker and Community Right-to-Know Act</b>		
	<b>Chemical Identity</b>	
	Bisphenol A	
<b>US. Massachusetts RTK –Substance List</b>		





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		<b>Chemical Identity</b>	
		Benzyl Alcohol	
		Bisphenol A	
<b>US. Pennsylvania RTK – Hazardous Substances</b>			
		<b>Chemical Identity</b>	
		Benzyl Alcohol	
		Bisphenol A	
<b>US. Rhode Island RTK</b>			
		No ingredient regulated by RI Right-to-Know Law present.	
<b>International Regulations:</b>			
	<b>Montreal Protocol</b>	Not Applicable	
	<b>Stockholm Convention</b>	Not Applicable	
	<b>Rotterdam Convention</b>	Not Applicable	
	<b>Kyoto Protocol</b>	Not Applicable	
	<b>VOC: When appropriately mixed with the other part, product has a VOC less water and exempt solvent of 170 g/l</b>		
	<b>Regulatory VOC (Less water and exempt solvent)</b>	501 g/l	
	<b>VOC Method 310</b>	47.29%	
<b>Inventory Status:</b>			
<b>Australia AICS:</b>		One or more components in this product are not listed on or exempt from inventory.	
<b>Canada DSL Inventory List:</b>		All components in this product are listed on or exempt from the inventory.	
<b>EINECS, ELINCS or NLP:</b>		One or more components in this product are not listed on or exempt from the Inventory.	
<b>Japan (ENCS) List:</b>		One or more components in this product are not listed on or exempt from the Inventory.	
<b>China Inv. Existing Chemical Substances:</b>		One or more components in this product are not listed on or exempt from the Inventory.	
<b>Korea Existing Chemicals Inv. (KECI):</b>		One or more components in this product are not listed on or exempt from the Inventory.	
<b>Canada NDSL Inventory:</b>		One or more components in this product are not listed on or exempt from the Inventory.	
<b>Philippines PICCS:</b>		One or more components in this product are not listed on or exempt from the Inventory.	
<b>US TSCA Inventory:</b>		All components in this product are listed on or exempt from the Inventory.	
<b>New Zealand Inventory of Chemicals:</b>		One or more components in this product are not listed on or exempt from the Inventory.	
<b>Japan ISHL Listing:</b>		One or more components in this product are not listed on or exempt from the Inventory.	
<b>Japan Pharmacopoeia Listing:</b>		One or more components in this product are not listed on or exempt from the Inventory.	



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## 16. Other Information, Including Date of Preparation or Last Revision

Revision Date:	December 4, 2017
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.