

# TOP-SHIELD™

## SAFETY DATA SHEET

### SECTION I -- IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**TRADE NAME:** TOP-SHIELD™  
**MANUFACTURER:** Base-Seal International, Inc.  
5226 Englewood Point Ct.  
Katy, TX 77494-2955  
**EMERGENCY PHONE NUMBER:** (832)-906-9154  
**RECOMMENDED USE:** Dust Suppressant; Aggregate Pile Sealer; Soil Stabilizing Agent  
**CHEMICAL NAME:** Aqueous acrylic vinyl acetate polymer emulsion  
**SYNONYMS:**

### SECTION II -- HAZARDS IDENTIFICATION

**CLASSIFICATION:** None  
**SIGNAL WORD:** None  
**HAZARD STATEMENT(S):** None  
**PRECAUTIONARY STATEMENT(S):** Wash hands and exposed areas while product is still in liquid form to minimize film formation on skin.  
Keep in closed containers to minimize evaporation of water.  
**OTHER HAZARDS:** None

### SECTION III -- COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	WT %
Acrylic and Vinyl Acetate Polymer	Non-hazardous	5-50%
Water	7732-18-5	95-50%

### SECTION IV -- FIRST AID MEASURES

**INHALATION:** Move subject to fresh air.  
**SKIN:** Flush with large amounts of water or wash with soap and water.  
**EYES:** Flush eyes with water for at least 15 minutes. Get medical attention.  
**INGESTION:** Give water to drink. Call a physician.  
NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS.  
**RECOMMENDATION TO FIREFIGHTERS ON SPECIAL PROTECTIVE EQUIPMENT OR PRECAUTIONS:** None

### SECTION V -- FIREFIGHTING MEASURES

**EXTINGUISHING MEDIUM:** N/A

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<b>SPECIAL FIREFIGHTING PROCEDURES:</b>	N/A
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	Material can splatter above 212°F. Dried polymer film can burn but will not support combustion.
<b>SPECIAL HAZARDS:</b>	None

### SECTION VI -- ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PRECAUTIONS:</b>	Use proper personal protective equipment.
<b>SPILL AND LEAK PROCEDURES:</b>	Dike and control spill. Transfer liquid to containers for recovery or disposal. Keep spills out of sewers and open bodies of water.

### SECTION VII -- HANDLING AND STORAGE

<b>STORAGE:</b>	Keep in a cool, dry, ventilated storage area and in closed containers. Avoid freezing temperatures. Minimize contact with the air to prevent microorganism contamination and reduce the formation of skins on the surface.
<b>HANDLING:</b>	Handle in a well-ventilated workspace.

### SECTION VIII -- EXPOSURE CONTROL/PERSONAL PROTECTION

<b>VENTILATION:</b>	Mechanical exhaust at point of contaminant
<b>RESPIRATORY PROTECTION:</b>	None required if good ventilation is maintained
<b>EYE PROTECTION:</b>	Chemical splash goggles recommended
<b>PROTECTIVE CLOTHING:</b>	Impervious gloves recommended

### SECTION IX -- PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Odor:</b>	Characteristic Acrylic odor
<b>Vapor Density:</b>	N/D
<b>Solubility in Water:</b>	Dilutable
<b>Relative Density:</b>	1.01-1.15
<b>Melting/Freezing Point:</b>	N/D
<b>VOC Content:</b>	0%
<b>Viscosity:</b>	50 - 500 cps at 22°C
<b>Flashpoint:</b>	Emulsion, >210°F
<b>Flammable Limits LEL:</b>	N/D
<b>Flammable Limits UEL:</b>	N/D
<b>Odor Threshold:</b>	N/D

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<b>Initial Boiling Point/Range:</b>	N/D
<b>Vapor Pressure:</b>	N/D
<b>Evaporation Rate:</b>	N/D
<b>pH:</b>	4-9.5
<b>Octanol/Water Coefficient:</b>	N/D
<b>Decomposition Temperature:</b>	N/D
<b>Flammability (solid/gas):</b>	N/A
<b>Auto Ignition Temperature:</b>	N/A

### SECTION X -- STABILITY AND REACTIVITY

<b>REACTIVITY:</b>	None
<b>CHEMICAL STABILITY:</b>	Stable
<b>CHEMICAL INCOMPATIBILITY:</b>	No hazardous reactions are expected to occur under normal industrial conditions.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide and water.
<b>HAZARDOUS POLYMERIZATION:</b>	Does not occur
<b>CONDITIONS TO AVOID:</b>	N/A

### SECTION XI -- TOXICOLOGICAL INFORMATION

#### EFFECTS OF OVEREXPOSURE

<b>INHALATION:</b>	Vapor from stored, undiluted product can cause headache and nausea.
<b>SKIN:</b>	Stored, undiluted product is slightly irritating to skin.
<b>EYES:</b>	Slightly irritating to eyes
<b>INGESTION:</b>	May be irritating to digestive tract.
<b>CARCINOGENICITY:</b>	N/D
<b>GERM CELL MUTAGENICITY:</b>	N/D
<b>REPRODUCTIVE TOXIN:</b>	N/D

<b>NAME</b>	<b>OSHA</b>		<b>ACGIH</b>	
	<b>TWA</b>	<b>STEL</b>	<b>TWA</b>	<b>STEL</b>
Acrylic & polyvinyl				
Acetate Polymer	None	None	None	None
Water	None	None	None	None

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### SECTION XII -- ECOLOGICAL INFORMATION

Animal toxicity studies on blended TOP-SHIELD™ have not been carried out because we believe the fish toxicity studies done on the blend demonstrate it is as non-toxic as the individual emulsions which go into the blend. TABLE #1 gives the results of our fish toxicity tests.

In summary, these data show that the LC<sub>50</sub> of TOP-SHIELD™ on goldfish is somewhere above 12,500 ppm. This is extremely low toxicity, especially in view of the legal requirement that chemicals must be labeled “toxic to fish” only if their LC<sub>50</sub> is less than 1.0 ppm.

TABLE I			
FISH TOXICITY STUDIES			
EMULSION NUMBER	TYPE OF FISH	HOURS	LC <sub>50</sub> PPM
C	Rainbow Trout	24	10,000
C	Rainbow Trout	96	8,950
C	Bluegill Sunfish	24	10,000
C	Bluegill Sunfish	96	5,640
C	Goldfish	24	4,200
H	Goldfish	24	7,500
G	Goldfish	24	10,000
D	Goldfish	24	13,400
F	Goldfish	24	13,400
TOP-SHIELD™	Goldfish	24	12,500 - 25,000
TOP-SHIELD™	Goldfish	48	12,500 - 25,000
TOP-SHIELD™	Goldfish	72	12,500 - 20,000
B	Goldfish	24	24,000
E	Goldfish	24	24,000

The 48 hour LC<sub>50</sub> for Daphnia Magna based on nominal test concentrations and mortality at the end of testing was calculated to be 3,482.8 parts per million (ppm).

### SECTION XIII -- DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL METHOD:

Consult your local authorities for regulations. Preferred waste management: recycle or reuse, incinerate with energy recovery, disposal in a licensed facility. Disposal facility should be compliant with state, local and federal government regulations.

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### SECTION XIV -- TRANSPORTATION INFORMATION

<b>DOT HAZARDOUS MATERIAL DESCRIPTION:</b>	None
<b>PROPER SHIPPING NAME:</b>	TOP-SHIELD™
<b>UN NUMBER:</b>	N/A
<b>HAZARD CLASS/PACKAGING GROUP:</b>	None
<b>LABELS REQUIRED:</b>	None
<b>LAND TRANSPORT:</b>	USDOT - Not classified as dangerous good under transport regulations
<b>SEA TRANSPORT:</b>	IMDG - Not classified as dangerous good under transport regulations
<b>AIR TRANSPORT:</b>	IATA/ICAO - Not classified as dangerous good under transport regulations

### SECTION XV -- REGULATORY INFORMATION

<b>NFPA RATING:</b>	<b>Health:</b>	0	<b>HMIS RATING:</b>	<b>Health:</b>	0
	<b>Flammability:</b>	0		<b>Flammability:</b>	0
	<b>Instability:</b>	0		<b>Physical Hazard:</b>	0
				<b>PPE:</b>	A

<b>Toxic Chemicals present in quantities &gt; "de minimus":</b>	None
<b>OSHA HCS hazard class:</b>	Non-hazardous
<b>EPA SARA Title III Section 313 (40CFR372):</b>	None
<b>TSCA:</b>	All components listed or exempt
<b>Canadian WHIMIS:</b>	N/A

### SECTION XVI -- OTHER INFORMATION

**LATEST REVISION:** July 2018

#### ABBREVIATIONS AND SYMBOLS:

N.D.	Not Determined	N.A.	Not Applicable	N.T.	Not Tested
<	Less Than	>	Greater Than		