

# Safety Data Sheet

## Borofilm 100

SDS Revision Date:

05/01/2015

### 1. Identification

#### 1.1. Product identifier

**Product Identity** Borofilm 100

**Alternate Names** Borofilm 100

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** See Technical Data Sheet.

**Application Method** See Technical Data Sheet.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name** Emulsitone Chemicals, LLC  
37 Willow Street  
Washington, NJ 07882

#### Emergency

**24 hour Emergency Telephone No.** 973-464-5579

**Customer Service: Emulsitone Chemicals, LLC** 973-386-0053

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Acute Tox. 4;H302	Harmful if swallowed.
Acute Tox. 4;H312	Harmful in contact with skin.
Acute Tox. 3;H331	Toxic if inhaled.
Repr. 1B;H360FD	May damage fertility. May damage the unborn child.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

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H331 Toxic if inhaled.

H360FD\* May damage fertility. May damage the unborn child.

### [Prevention]:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection / face protection.

### [Response]:

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P308+313 IF exposed or concerned: Get medical advice / attention.

P311 Call a POISON CENTER or doctor / physician.

P321 Specific treatment (see information on this label).

P330 Rinse mouth.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 Wash contaminated clothing before reuse.

### [Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

### [Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
2-Ethoxy-ethanol CAS Number: 0000110-80-5	50 - 75	Flam. Liq. 3;H226 Repr. 1B;H360FD Acute Tox. 3;H331 Acute Tox. 4;H312 Acute Tox. 4;H302	[1][2]
Acetic acid ethenyl ester, polymer with ethenol CAS Number: 0025213-24-5	10 - 25	Eye Irrit. 2;H319	[1]

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Boric Acid CAS Number: 0010043-35-3	1.0 - 10	Repr. 1B;H360FD	[1]
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In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

### 4. First aid measures

#### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention immediately.
<b>Eyes</b>	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
<b>Skin</b>	Immediately flush affected area for at least 15 minutes. Remove and clean or dispose of contaminated clothing in accordance with appropriate federal, state, and local regulations. Get medical attention immediately.
<b>Ingestion</b>	This product contains polyvinyl alcohol in solution. If victim is conscious and able to swallow, have victim drink water or milk to dilute. Never give anything by mouth if victim is unconscious or having convulsions. Call a physician or Poison Control Center immediately. Induce vomiting only if advised by physician or Poison Control Center.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>Overview</b>	Inhalation: This Emulsitone product is considered to be non-hazardous. The solvent is water.  Ingestion: Symptoms are unknown. However, as with any non-food product, if ingested, contact a doctor or Poison Control Center immediately.  Eye Contact: Liquid or vapor may cause irritation.  Skin Contact: May cause irritation and defatting of skin on prolonged contact.  See section 2 for further details.
<b>Inhalation</b>	Toxic if inhaled.
<b>Skin</b>	Harmful in contact with skin.
<b>Ingestion</b>	Harmful if swallowed.

### 5. Fire-fighting measures

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### 5.1. Extinguishing media

Non-flammable

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Avoid breathing dust / fume / gas / mist / vapors / spray.

### 5.3. Advice for fire-fighters

None

ERG Guide No. ----

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

### 6.2. Environmental precautions

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

This product is not flammable or poisonous. A spill may be collected with absorbent media or mopped up.

Ordinary trash removal for solids and sanitary sewers for liquid wastes.

## 7. Handling and storage

### 7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Strong Oxidizers

See section 2 for further details. - [Storage]:

7.3. Specific end use(s); No data available

## 8. Exposure controls and personal protection

### 8.1. Control parameters

Exposure

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CAS No.	Ingredient	Source	Value
0000110-80-5	2-Ethoxy-ethanol	OSHA	TWA 200 ppm (740 mg/m <sup>3</sup> ) [skin]
		ACGIH	TWA: 5 ppmSkin, R
		NIOSH	TWA 0.5 ppm (1.8 mg/m <sup>3</sup> ) [skin]
		Supplier	No Established Limit
0025213-24-5	Acetic acid ethenyl ester, polymer with ethenol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0010043-35-3	Boric Acid	OSHA	No Established Limit
		ACGIH	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>
		NIOSH	No Established Limit
		Supplier	No Established Limit

### Carcinogen Data

CAS No.	Ingredient	Source	Value
0000110-80-5	2-Ethoxy-ethanol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0025213-24-5	Acetic acid ethenyl ester, polymer with ethenol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0010043-35-3	Boric Acid	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

### 8.2. Exposure controls

**Respiratory**

Not necessary under normal conditions.

**Eyes**

Protective safety glasses recommended

**Skin**

Avoid skin contact. Use chemically resistant gloves.

**Engineering Controls**

Not necessary under normal conditions.

**Other Work Practices**

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

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<b>Appearance</b>	Clear Liquid
<b>Odor</b>	None
<b>Odor threshold</b>	Not Measured
<b>pH</b>	Not Measured
<b>Melting point / freezing point</b>	Not Measured
<b>Initial boiling point and boiling range</b>	212 F
<b>Flash Point</b>	> 200 F, Nonflammable
<b>Evaporation rate (Ether = 1)</b>	Not Measured
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not Measured <b>Upper Explosive Limit:</b> Not Measured
<b>Vapor pressure (Pa)</b>	17.5 mmHg
<b>Vapor Density</b>	0.32 (Air = 1)
<b>Specific Gravity</b>	1.0 - 1.2 g/cc @ 25C
<b>Solubility in Water</b>	Soluble
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	Not Measured
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cP)</b>	16 – 20 cP @ 25C

### 9.2. Other information

No other relevant information.

## 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

Strong Oxidizers

### 10.6. Hazardous decomposition products

No hazardous decomposition data available.

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### 11. Toxicological information

#### Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
2-Ethoxy-ethanol - (110-80-5)	2,125.00, Rat - Category: 5	3,300.00, Rabbit - Category: 5	15.00, Rat - Category: 4	No data available	No data available
Acetic acid ethenyl ester, polymer with ethenol - (25213-24-5)	5,000.00, Rat - Category: 5	No data available	No data available	No data available	No data available
Boric Acid - (10043-35-3)	2,660.00, Rat - Category: 5	2,000.00, Rabbit - Category: 4	No data available	2.00, Rat - Category: 4	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	4	Harmful in contact with skin.
Acute toxicity (inhalation)	3	Toxic if inhaled.
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	1B	May damage fertility. May damage the unborn child.
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

### 12. Ecological information

#### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

#### Aquatic Ecotoxicity

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Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
2-Ethoxy-ethanol - (110-80-5)	10,000.00, Lepomis macrochirus	1,892.52, Daphnia magna	1,000.00 (72 hr), Scenedesmus subspicatus
Acetic acid ethenyl ester, polymer with ethenol - (25213-24-5)	Not Available	Not Available	Not Available
Boric Acid - (10043-35-3)	279.00, Ptychocheilus lucius	133.00, Daphnia magna	Not Available

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

## 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user			



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No further information

### 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act ( TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

**WHMIS Classification** D1B

**US EPA Tier II Hazards**

**Fire:** No

**Sudden Release of Pressure:** No

**Reactive:** No

**Immediate (Acute):** Yes

**Delayed (Chronic):** No

**EPCRA 311/312 Chemicals and RQs (lbs):**

2-Ethoxy-ethanol ( 1,000.00)

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

2-Ethoxy-ethanol

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

2-Ethoxy-ethanol

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

2-Ethoxy-ethanol

**New Jersey RTK Substances (>1%):**

2-Ethoxy-ethanol

**Pennsylvania RTK Substances (>1%):**

2-Ethoxy-ethanol

### 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no

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The full text of the phrases appearing in section 3 is:

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H360FD May damage fertility. Suspected of damaging the unborn child.

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

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