

# Unicoat Admixture 2000; Unicoat Bonding Agent 1000

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Date of Issue: 06/05/2024

Version: 1.0

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Unicoat Admixture 2000; Unicoat Bonding Agent 1000

**Synonyms:** Admix; Bonding Adhesive

### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** For professional use only

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Somar Industries Ltd.

6050 Lockett Court

El Paso, TX 79932

(915) 858-8080

### 1.4. Emergency Telephone Number

**Emergency Number** : (915) 727-0877

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### GHS-US Classification

Hazardous to the aquatic environment – Acute Hazard Category 3 H402

### 2.2. Label Elements

#### GHS-US Labeling

**Hazard Statements (GHS-US)** : H402 - Harmful to aquatic life.

**Precautionary Statements (GHS-US)** : P273 - Avoid release to the environment.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Proprietary Ingredient 1	Proprietary	(CAS-No.) Proprietary	16.62 – 24.79	Not classified.
Proprietary Ingredient 2	Proprietary	(CAS-No.) Proprietary	0.07 – 0.83	Flam. Gas 2, H221 Press. Gas (Comp.), H280 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Proprietary Ingredient 3	Proprietary	(CAS-No.) Proprietary	0.03 – 0.28	Not classified.
Proprietary Ingredient 4	Proprietary	(CAS-No.) Proprietary	< 0.09	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 3, H402

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Proprietary Ingredient 5	Proprietary	(CAS-No.) Proprietary	< 0.09	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Proprietary Ingredient 6	Proprietary	(CAS-No.) Proprietary	< 0.09	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335
Proprietary Ingredient 7	Proprietary	(CAS-No.) Proprietary	< 0.09	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Proprietary Ingredient 8	Proprietary	(CAS-No.) Proprietary	< 0.09	Flam. Gas 1, H220 Press. Gas (Comp.), H280 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation:gas), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H335 STOT RE 1, H372 Aquatic Acute 3, H402
Proprietary Ingredient 9	Proprietary	(CAS-No.) Proprietary	< 0.09	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335 Aquatic Acute 3, H402
Proprietary Ingredient 10	Proprietary	(CAS-No.) Proprietary	< 0.05	Not classified.
Proprietary Ingredient 11	Proprietary	(CAS-No.) Proprietary	< 0.04	Not classified.
Proprietary Ingredient 12	Proprietary	(CAS-No.) Proprietary	< 0.03	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Combustible Dust
Proprietary Ingredient 13	Proprietary	(CAS-No.) Proprietary	< 0.03	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

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Proprietary Ingredient 14	Proprietary	(CAS-No.) Proprietary	< 0.02	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
Proprietary Ingredient 15	Proprietary	(CAS-No.) Proprietary	< 0.01	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Proprietary Ingredient 16	Proprietary	(CAS-No.) Proprietary	< 0.01	Carc. 2, H351
Proprietary Ingredient 17	Proprietary	(CAS-No.) Proprietary	< 0.01	Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 1A, H350 Repr. 2, H361 STOT RE 1, H372 Asp. Tox. 1, H304
Proprietary Ingredient 18	Proprietary	(CAS-No.) Proprietary	< 0.01	Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 1B, H350 Asp. Tox. 1, H304
Proprietary Ingredient 19	Proprietary	(CAS-No.) Proprietary	< 0.01	Combustible Dust

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Metal oxides. Nitrogen oxides. Sulfur oxides. Smoke.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Keep from freezing.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

### 7.3. Specific End Use(s)

For professional use only

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Proprietary Ingredient 15		
USA AIHA	WEEL TWA	10 mg/m <sup>3</sup>
Proprietary Ingredient 13		
USA ACGIH	ACGIH OEL TWA [ppm]	25 ppm (vapor fraction)
USA ACGIH	ACGIH OEL STEL	10 mg/m <sup>3</sup> (inhalable particulate matter, aerosol only)
USA ACGIH	ACGIH OEL STEL [ppm]	50 ppm (vapor fraction)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
Proprietary Ingredient 16		
USA ACGIH	ACGIH OEL TWA	0.2 mg/m <sup>3</sup> (nanoscale respirable particulate matter) 2.5 mg/m <sup>3</sup> (finescale respirable particulate matter)
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA NIOSH	NIOSH REL (TWA)	2.4 mg/m <sup>3</sup> (CIB 63-fine) 0.3 mg/m <sup>3</sup> (CIB 63-ultrafine, including engineered nanoscale)
USA IDLH	IDLH	5000 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust)
Proprietary Ingredient 2		
USA ACGIH	ACGIH OEL TWA [ppm]	25 ppm
USA ACGIH	ACGIH OEL STEL [ppm]	35 ppm
USA NIOSH	NIOSH REL (TWA)	18 mg/m <sup>3</sup>

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<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	25 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	27 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL STEL [ppm]	35 ppm
<b>USA IDLH</b>	IDLH [ppm]	300 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	35 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	50 ppm
<b>Proprietary Ingredient 4</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	50 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	100 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen,dermal sensitizer
<b>USA NIOSH</b>	NIOSH REL (TWA)	410 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	100 ppm
<b>USA IDLH</b>	IDLH [ppm]	1000 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	410 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	100 ppm
<b>Proprietary Ingredient 5</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	0.1 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	0.3 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Human Carcinogen,dermal sensitizer
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	0.016 ppm
<b>USA NIOSH</b>	NIOSH REL C [ppm]	0.1 ppm
<b>USA IDLH</b>	IDLH [ppm]	20 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	0.75 ppm
<b>USA OSHA</b>	OSHA PEL (STEL) [2]	2 ppm (see 29 CFR 1910.1048)
<b>USA OSHA</b>	OSHA Action Level/Excursion Limit	0.5 ppm (Action level, see 29 CFR 1910.1028)
<b>Proprietary Ingredient 6</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	20 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans,Skin - potential significant contribution to overall exposure by the cutaneous route
<b>USA NIOSH</b>	NIOSH REL (Ceiling)	3.6 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL C [ppm]	1 ppm
<b>USA IDLH</b>	IDLH [ppm]	500 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	360 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	100 ppm
<b>USA OSHA</b>	Limit value category (OSHA)	prevent or reduce skin absorption
<b>Proprietary Ingredient 7</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	5 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>USA NIOSH</b>	NIOSH REL (TWA)	245 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	50 ppm
<b>USA IDLH</b>	IDLH [ppm]	900 ppm (10% LEL)
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	245 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	50 ppm
<b>USA OSHA</b>	Limit value category (OSHA)	prevent or reduce skin absorption
<b>Proprietary Ingredient 8</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	1 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Suspected Human Carcinogen
<b>USA ACGIH</b>	BEI (BLV)	Parameter: N-(2-Hydroxyethyl)valine (HEV) hemoglobin adducts - Medium: blood - Sampling time: not critical (applies to workers having representative Ethylene oxide exposure during the previous 120 days) Parameter: S-(2-Hydroxyethyl)mercapturic acid (HEMA) - Medium: urine - Sampling time: end of shift (nonspecific, population based)

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<b>USA NIOSH</b>	NIOSH REL (TWA)	0.18 mg/m <sup>3</sup> (less than stated value)
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	0.1 ppm (less than stated value)
<b>USA NIOSH</b>	NIOSH REL (Ceiling)	9 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL C [ppm]	5 ppm
<b>USA IDLH</b>	IDLH [ppm]	800 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	1 ppm
<b>USA OSHA</b>	OSHA PEL (STEL) [2]	5 ppm (see 29 CFR 1910.1047)
<b>USA OSHA</b>	OSHA Action Level/Excursion Limit	0.5 ppm (Action Level, see 29 CFR 1910.1047) 5 ppm (Excursion Limit, see 29 CFR 1910.1047)
<b>Proprietary Ingredient 9</b>		
<b>USA ACGIH</b>	ACGIH OEL Ceiling [ppm]	25 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Suspected Human Carcinogen
<b>USA IDLH</b>	IDLH [ppm]	2000 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	360 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	200 ppm
<b>Proprietary Ingredient 14</b>		
<b>USA ACGIH</b>	ACGIH OEL Ceiling	2 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (Ceiling)	2 mg/m <sup>3</sup>
<b>USA IDLH</b>	IDLH	10 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	2 mg/m <sup>3</sup>
<b>Proprietary Ingredient 10</b>		
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	20 mppcf
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	20 mppcf , 80/(SiO <sub>2</sub> ) mg/m <sup>3</sup> (See 29 CFR 1910.1000 TABLE Z-3)
<b>Proprietary Ingredient 19</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	3 mg/m <sup>3</sup> (inhalable particulate matter)
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>USA NIOSH</b>	NIOSH REL (TWA)	3.5 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> (Carbon black in presence of Polycyclic aromatic hydrocarbons)
<b>USA IDLH</b>	IDLH	1750 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	3.5 mg/m <sup>3</sup>

## 8.2. Exposure Controls

### Appropriate Engineering Controls

- : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

### Personal Protective Equipment

- : Gloves. Protective clothing. Protective goggles.



### Materials for Protective Clothing

- : Chemically resistant materials and fabrics.

### Hand Protection

- : Wear protective gloves.

### Eye and Face Protection

- : Chemical safety goggles.

### Skin and Body Protection

- : Wear suitable protective clothing.

### Respiratory Protection

- : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

### Other Information

- : When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

#### Physical State

: Liquid

#### Appearance

: White or yellow

#### Odor

: Vinyl Acetate / Ammoniacal

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Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: > 212 °F (100 °C)
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

## 9.2. Other Information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Metal oxides. Nitrogen oxides. Sulfur oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Not classified.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Not classified.

Proprietary Ingredient 1	
LD50 Oral Rat	> 90 ml/kg (Source: FOOD_JOURN)
Proprietary Ingredient 15	
LD50 Oral Rat	1120 mg/kg
LD50 Dermal Rabbit	11890 mg/kg (Source: NLM_CIP)
LC50 Inhalation Rat	> 4600 mg/m <sup>3</sup> (Exposure time: 4 h)
Proprietary Ingredient 13	
LD50 Oral Rat	4700 mg/kg (Source: NLM_CIP)
LD50 Dermal Rat	10600 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation Rat	> 2.5 mg/l (Exposure time: 6 h)
ATE (Oral)	500.00 mg/kg body weight
Proprietary Ingredient 16	
LD50 Oral Rat	> 10000 mg/kg (Source: IUCLID)
LC50 Inhalation Rat	5.09 mg/l/4h
Proprietary Ingredient 17	
LD50 Oral Rat	> 5000 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rabbit	> 2000 mg/kg (Source: IUCLID)
LC50 Inhalation Rat	> 5530 mg/m <sup>3</sup> (Exposure time: 4 h Source: EPA_HPVS)

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LC50 Inhalation Rat	2.18 mg/l/4h
<b>Proprietary Ingredient 18</b>	
LD50 Oral Rat	> 15 g/kg (Source: NLM_CIP)
LD50 Dermal Rabbit	> 5 g/kg (Source: NLM_CIP)
LC50 Inhalation Rat	2.18 mg/l/4h
<b>Proprietary Ingredient 2</b>	
LD50 Oral Rat	350 mg/kg (Source: OECD_SIDS)
LC50 Inhalation Rat	5.1 mg/l (Exposure time: 1 h)
LC50 Inhalation Rat	2000 ppm/4h (Exposure time: 4 h)
<b>Proprietary Ingredient 4</b>	
LD50 Oral Rat	8420 – 10000 mg/kg (Source: OECD_SIDS)
LD50 Dermal Rabbit	5000 – 7500 mg/kg (Source: OECD_SIDS)
LC50 Inhalation Rat	29.04 mg/l/4h
<b>Proprietary Ingredient 5</b>	
LD50 Oral Rat	100 mg/kg
LD50 Dermal Rat	270 mg/kg
LC50 Inhalation Rat	< 463 ppm/4h
ATE (Gases)	700.00 ppmV/4h
<b>Proprietary Ingredient 6</b>	
LD50 Oral Rat	5170 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rabbit	7600 mg/kg (Source: CHEMVIEW)
LC50 Inhalation Rat	46 mg/l (Exposure time: 2 h Source: JAPAN_GHS)
LC50 Inhalation Rat	32.5 mg/l/4h
<b>Proprietary Ingredient 7</b>	
LD50 Oral Rat	2260 mg/kg
LD50 Dermal Rabbit	10000 mg/kg
LC50 Inhalation Rat	> 3577 ppm (Exposure time: 6 h Source: JAPAN_GHS)
LC50 Inhalation Rat	39.3 mg/l/4h
<b>Proprietary Ingredient 8</b>	
LD50 Oral Rat	72 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation Rat	800 ppm/4h
<b>Proprietary Ingredient 9</b>	
LD50 Oral Rat	660 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rabbit	3540 mg/kg (Source: NLM_HSDB)
LC50 Inhalation Rat	13000 ppm/4h
<b>Proprietary Ingredient 12</b>	
LD50 Oral Rat	1020 mg/kg (Source: NZ_CCID)
LD50 Dermal Rat	> 2000 mg/kg (Source: ECHA_API)
<b>Proprietary Ingredient 14</b>	
LD50 Oral Rat	325 mg/kg
LD50 Dermal Rabbit	1350 mg/kg (Source: NLM_HSDB)
<b>Proprietary Ingredient 3</b>	
LD50 Oral Rat	> 5 g/kg
LD50 Dermal Rabbit	> 5 g/kg
LC50 Inhalation Rat	> 2400 mg/m <sup>3</sup> (Exposure time: 4 h Source: EPA_HPVS)
<b>Proprietary Ingredient 11</b>	
LD50 Oral Rat	> 5000 mg/kg (Source: EPA_HPVS)
LD50 Dermal Rabbit	> 5000 mg/kg (Source: EPA_HPVS)
LC50 Inhalation Rat	> 5399 mg/m <sup>3</sup> (Exposure time: 4 h Source: EPA_HPVS)
<b>Proprietary Ingredient 19</b>	
LD50 Oral Rat	> 8000 mg/kg
LC50 Inhalation Rat	> 4.6 mg/m <sup>3</sup> (Exposure time: 4 h)

Skin Corrosion/Irritation: Not classified.

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**Serious Eye Damage/Irritation:** Not classified.

**Respiratory or Skin Sensitization:** Not classified.

**Germ Cell Mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

<b>Proprietary Ingredient 16</b>	
<b>IARC group</b>	2B
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Proprietary Ingredient 4</b>	
<b>IARC group</b>	3
<b>Proprietary Ingredient 5</b>	
<b>IARC group</b>	1
<b>National Toxicology Program (NTP) Status</b>	Known Human Carcinogens.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>OSHA Specifically Regulated Carcinogen List</b>	In OSHA Specifically Regulated Carcinogen list.
<b>Proprietary Ingredient 6</b>	
<b>IARC group</b>	2B
<b>National Toxicology Program (NTP) Status</b>	Reasonably anticipated to be Human Carcinogen, Evidence of Carcinogenicity.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Proprietary Ingredient 7</b>	
<b>IARC group</b>	2B
<b>National Toxicology Program (NTP) Status</b>	Reasonably anticipated to be Human Carcinogen, Evidence of Carcinogenicity.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Proprietary Ingredient 8</b>	
<b>IARC group</b>	1
<b>National Toxicology Program (NTP) Status</b>	Known Human Carcinogens.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>OSHA Specifically Regulated Carcinogen List</b>	In OSHA Specifically Regulated Carcinogen list.
<b>Proprietary Ingredient 9</b>	
<b>IARC group</b>	2B
<b>National Toxicology Program (NTP) Status</b>	Reasonably anticipated to be Human Carcinogen.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Proprietary Ingredient 10</b>	
<b>IARC group</b>	3
<b>Proprietary Ingredient 19</b>	
<b>IARC group</b>	2B
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (Single Exposure):** Not classified.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified.

**Aspiration Hazard:** Not classified.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General** : Harmful to aquatic life.

<b>Proprietary Ingredient 15</b>	
<b>LC50 Fish 1</b>	75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)

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EC50 - Crustacea [1]	84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Proprietary Ingredient 13</b>	
LC50 Fish 1	41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
EC50 - Crustacea [1]	46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	14 – 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
NOEC Chronic Crustacea	4.2 mg/l
<b>Proprietary Ingredient 17</b>	
LC50 Fish 1	5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Proprietary Ingredient 18</b>	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Proprietary Ingredient 2</b>	
LC50 Fish 1	13 mg/l
EC50 - Crustacea [1]	25.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	0.26 – 4.6 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus Source: IUCLID)
NOEC Chronic Crustacea	3.47 mg/l
<b>Proprietary Ingredient 4</b>	
LC50 Fish 1	243 – 275 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	69 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	125.5 – 190.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
NOEC Chronic Crustacea	3.5 mg/l
NOEC Chronic Algae	86 mg/l
<b>Proprietary Ingredient 5</b>	
LC50 Fish 1	22.6 – 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	2 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1510 µg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [2]	11.3 – 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Crustacea	1 mg/l
<b>Proprietary Ingredient 6</b>	
LC50 Fish 1	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	163 mg/l (Exposure time: 48 h - Species: water flea [Static])
LC50 Fish 2	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [semi-static])
<b>Proprietary Ingredient 7</b>	
LC50 Fish 1	6.04 – 6.61 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	0.6 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	4.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: IUCLID)
EC50 - Crustacea [2]	7.9 – 14.1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Crustacea	0.35 mg/l
NOEC Chronic Algae	0.22 mg/l
<b>Proprietary Ingredient 8</b>	
LC50 Fish 1	73 – 96 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: EPA)
EC50 - Crustacea [1]	137 – 300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Proprietary Ingredient 9</b>	
LC50 Fish 1	28 (28 – 34) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	3.64 (3.64 – 6.15) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)

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EC50 - Crustacea [2]	48.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC Chronic Algae	1.9 mg/l
<b>Proprietary Ingredient 12</b>	
EC50 - Crustacea [1]	0.99 mg/l
<b>Proprietary Ingredient 14</b>	
LC50 Fish 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	40 mg/l
<b>Proprietary Ingredient 3</b>	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Proprietary Ingredient 10</b>	
LC50 Fish 1	10000 mg/l
<b>Proprietary Ingredient 11</b>	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Proprietary Ingredient 19</b>	
EC50 - Crustacea [1]	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)
<b>12.2. Persistence and Degradability</b>	
<b>Unicoat Admixture 2000; Unicoat Bonding Agent 1000</b>	
Persistence and Degradability	Not established.
<b>12.3. Bioaccumulative Potential</b>	
<b>Unicoat Admixture 2000; Unicoat Bonding Agent 1000</b>	
Bioaccumulative Potential	Not established.
<b>Proprietary Ingredient 15</b>	
BCF Fish 1	100 – 180
Partition coefficient n-octanol/water (Log Pow)	-1.98 (at 25 °C)
<b>Proprietary Ingredient 13</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.36
<b>Proprietary Ingredient 4</b>	
Partition coefficient n-octanol/water (Log Pow)	1.38 at 20 °C (at pH 7)
<b>Proprietary Ingredient 5</b>	
Partition coefficient n-octanol/water (Log Pow)	0.35 (at 25 °C)
<b>Proprietary Ingredient 6</b>	
BCF Fish 1	0.3 – 0.7
Partition coefficient n-octanol/water (Log Pow)	-0.42
<b>Proprietary Ingredient 7</b>	
BCF Fish 1	35.5
Partition coefficient n-octanol/water (Log Pow)	3.55 (at 23 °C)
<b>Proprietary Ingredient 8</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.3 at 25 °C (at pH 7)
<b>Proprietary Ingredient 9</b>	
Partition coefficient n-octanol/water (Log Pow)	0.45 – 0.63 at 25 °C (at pH 7)
<b>Proprietary Ingredient 12</b>	
Partition coefficient n-octanol/water (Log Pow)	0.99 at 20 °C (at pH 5)

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## 12.4. Mobility in Soil

No additional information available

## 12.5. Other Adverse Effects

**Other Information** : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

Not regulated for transport

### 14.2. In Accordance with IMDG

Not regulated for transport

### 14.3. In Accordance with IATA

Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<b>Proprietary Ingredient 1</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Proprietary Ingredient 15</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Proprietary Ingredient 13</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	5000 lb
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Proprietary Ingredient 16</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Proprietary Ingredient 17</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Proprietary Ingredient 18</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Proprietary Ingredient 2</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>	500 lb
<b>SARA Section 313 - Emission Reporting</b>	1 % (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing)
<b>Proprietary Ingredient 4</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	1000 lb
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Proprietary Ingredient 5</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	

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Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>	500 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Proprietary Ingredient 6</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Proprietary Ingredient 7</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	5000 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Proprietary Ingredient 8</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	10 lb
<b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>	1000 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Proprietary Ingredient 9</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	1000 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Proprietary Ingredient 12</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Proprietary Ingredient 14</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>CERCLA RQ</b>	1000 lb
<b>Proprietary Ingredient 3</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Proprietary Ingredient 11</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Proprietary Ingredient 19</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	

## 15.2. US State Regulations

<b>Proprietary Ingredient 15</b>	
U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Proprietary Ingredient 13</b>	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
U.S. - Massachusetts - Right To Know List	
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
<b>Proprietary Ingredient 16</b>	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
U.S. - Massachusetts - Right To Know List	
<b>Proprietary Ingredient 18</b>	
U.S. - Massachusetts - Right To Know List	
<b>Proprietary Ingredient 2</b>	

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U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Proprietary Ingredient 4

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Proprietary Ingredient 5

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Proprietary Ingredient 6

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Proprietary Ingredient 7

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Proprietary Ingredient 8

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Proprietary Ingredient 9

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Proprietary Ingredient 14

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Proprietary Ingredient 10

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List


### Proprietary Ingredient 11

U.S. - Massachusetts - Right To Know List

### Proprietary Ingredient 19

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List

### California Proposition 65

 **WARNING:** This product can expose you to Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Ethylene glycol (107-21-1)		X		
Titanium dioxide (13463-67-7)	X			
Formaldehyde (50-00-0)	X			
1,4-Dioxane (123-91-1)	X			
Isopropylbenzene (98-82-8)	X			
Ethylene oxide (75-21-8)	X	X	X	X
Acetaldehyde (75-07-0)	X			
Carbon black (1333-86-4)	X			

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

<b>Date of Preparation or Latest Revision</b>	: 06/05/2024
<b>Other Information</b>	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

#### GHS Full Text Phrases:

H220	Extremely flammable gas
H221	Flammable gas
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H340	May cause genetic defects
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

#### Glossary of Data Source Abbreviations

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ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)

AU\_WES: Australia WES

CHEMVIEW: ChemView (U.S. Environmental Protection Agency)

EC\_RAR: European Commission Renewal Assessment Report

EC\_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits

ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports

ECHA\_API: European Chemicals Agency API

ECHA\_RAC: ECHA Committee for Risk Assessment

EFSA: European Food Safety Authority

EPA: U.S. Environmental Protection Agency

EPA\_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)

EPA\_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)

EPA\_HPVC: High Production Volume Chemicals (U.S. Environmental Protection Agency)

EPA\_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)

EU\_CLH: European Union Harmonised Classification and Labelling Proposal

EU\_RAR: European Union Risk Assessment Report

FOOD\_JOURN: Food Research Journal (1956)

IARC: The International Agency for Research on Cancer

IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles

IUCLID: International Uniform Chemical Information Database

JAPAN\_GHS: Japan GHS Basis for Classification Data

JP\_J-CHECK: Japan J-Check

KR\_NIER: South Korea National Institute of Environmental Research Evaluations

NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme

NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)

NLM\_CIP: National Library of Medicine ChemID plus database

NLM\_HSDB: National Library of Medicine Hazardous Substance Data Bank

NLM\_PUBMED: National Library of Medicine PubMed database

NTP: National Toxicology Program

NZ\_CCID: New Zealand Chemical Classification and Information Database

OECD\_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)

OECD\_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)

WHO: World Health Organization

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)