

# SAFETY DATA SHEET

Issuing Date: 12-Dec-2019

## 1. Identification

### Product identifier

**Product Name** Top Surf®

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended use** Non-ionic surfactant for use in agricultural applications.  
See product label for recommended uses and use sites.

**Restrictions on use** See product label for information regarding restrictions on the use of this product.

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

#### Supplier Address

Winfield United  
 10000 N. 10th St.  
 Omaha, NE 68131  
 USA  
 Tel: 402.491.1111  
 Fax: 402.491.1112  
 Email: sales@winfieldunited.com

### Emergency telephone number

**Emergency Telephone** FOR MEDICAL EMERGENCY: 1-877-424-7452 (24 hrs)  
 FOR CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC: 1-800-424-9300 (24 hrs)

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2b
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### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

**Signal word**  
WARNING

**Hazard statements**  
Causes eye irritation

**Pictogram(s)**  
None required

**Precautionary Statements - Prevention**

Wear eye protection/ face protection. Wash hands face and any exposed skin thoroughly after handling.

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Other information**

Harmful to aquatic life with long lasting effects

Harmful to aquatic life

**Unknown acute toxicity** 38.41 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

Chemical name	CAS No	Weight-%	Trade secret
1,2,3- Propanetriol	56-81-5	15-40	*
Nonylphenol ethoxylate	127087-87-0	5-10	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

**Description of first aid measures**

<b>General advice</b>	Show this safety data sheet or the product label to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if you feel unwell.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Causes eye irritation. Symptoms may include: redness, burning, tearing, blurred vision and discomfort.
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**Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	Treat symptomatically.
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## 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Specific hazards arising from the chemical</b>	May be a slipping hazard when spilled.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so. Contain spilled liquid by diking area with sand or earth.
<b>Methods for cleaning up</b>	Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a properly labeled container for disposal. Do not place spilled material back in original container.
<b>Environmental precaution</b>	Keep spilled product from entering nearby sewers or waterways.

## 7. Handling and storage

### Precautions for safe handling

<b>Advice on safe handling</b>	Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. May be a slipping hazard when spilled. Immediately clean up spills that occur during handling.
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### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Storage above 40°F is recommended. If product is stored below 40°F, warm and agitate (recirculate) prior to use. Store in a secure, cool, dry and well-ventilated area away from children, food and feed products. Keep container tightly closed when not in use. Store in original container only.
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## 8. Exposure controls/personal protection

### Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,2,3-Propanetriol 56-81-5	No data available	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	-

### Appropriate engineering controls

#### Engineering controls

Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear tight sealing safety goggles.

#### Hand protection

Wear impervious gloves to protect against repeated exposure to skin.

#### Skin and body protection

Wear long-sleeved shirt, long pants, and shoes plus socks to prevent prolonged or repeated skin contact.

#### Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

#### General hygiene considerations

Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Hay
Odor	No information available
Odor threshold	No information available

Property	Values
pH	6 -8
Melting point / freezing point	No data available
Boiling point / boiling range	No data available
Flash point	No flashpoint detected
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available

Vapor pressure	No data available
Vapor density	No data available
Specific gravity	1.3701 @ 20 °C
Density (lbs/gal)	1.12298 g/ml (9.37172 lbs/gal)
Water solubility	No data available
Solubility(ies)	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
<u>Other information</u>	
Explosive properties	No information available.
Oxidizing properties	No information available.
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available

## 10. Stability and reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat and open flame. Store away from incompatible materials.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

Inhalation	Specific test data for the product is not available. Pre-existing respiratory conditions may be aggravated by exposure to mists.
Eye contact	Causes eye irritation. Symptoms may include: redness, burning, tearing, blurred vision and discomfort.
Skin contact	Specific test data for the product is not available. Prolonged or repeated exposure may cause mild skin irritation.
Ingestion	Specific test data for the product is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Acute toxicity****Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	8,960.10 mg/kg
ATEmix (dermal)	17,590.80 mg/kg
ATEmix (inhalation-dust/mist)	11.39 mg/l

**Unknown acute toxicity** 38.41 % of the mixture consists of ingredient(s) of unknown toxicity

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,2,3-Propanetriol 56-81-5	= 12600 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	> 570 mg/m <sup>3</sup> ( Rat ) 1 h
Nonylphenol ethoxylate 127087-87-0	= 1310 mg/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Respiratory or skin sensitization</b>	Not expected to be a skin sensitizer.
<b>Germ cell mutagenicity</b>	Does not contain substances that are known or suspected to be mutagens.
<b>Carcinogenicity</b>	Contains no ingredients above reportable quantities listed as a carcinogen.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	None of the ingredients are known to cause specific target organ effects form a single exposure.
<b>STOT - repeated exposure</b>	None of the ingredients are known to cause specific target organ effects through prolonged or repeated exposure.
<b>Target organ effects</b>	Eyes, Skin, Respiratory system, kidney.
<b>Aspiration hazard</b>	None of the ingredients are known to be an aspiration hazard.
<b>Other adverse effects</b>	No information available.
<b>Interactive effects</b>	No information available.

**12. Ecological information**

**Ecotoxicity** Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,2,3-Propanetriol 56-81-5	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	EC50: >500mg/L (24h, Daphnia magna)

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

**Component Information**

Chemical name	Partition coefficient
1,2,3-Propanetriol 56-81-5	-1.76

**Other adverse effects** No information available.

## 13. Disposal considerations

### Waste treatment methods

#### **Waste from residues/unused products**

Dispose of in accordance with applicable Federal, state and local laws and regulations.

#### **Contaminated packaging**

Do not reuse empty container. Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations. See product label for further information.

#### **US EPA Waste Number**

It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

## 14. Transport information

#### DOT

Not regulated

#### ICAO (air)

Not regulated

#### IATA

Not regulated

#### IMDG

Not regulated

## 15. Regulatory information

### International Inventories

#### **TSCA**

All components are listed on the TSCA inventory or are exempt from listing.

#### **Legend:**

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

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**U.S. State Right-to-Know Regulations****US State Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
1,2,3-Propanetriol 56-81-5	X	X	X
1,2 dihydroxypropane 57-55-6	X	-	X

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. Other information**

<b>NFPA</b>	<b>Health hazards</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and chemical properties</b> -
<b>HMIS</b>	<b>Health hazards</b> 1	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> X

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Key literature references and sources for data used to compile the SDS**

U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 RTECS (Registry of Toxic Effects of Chemical Substances)  
 World Health Organization

**Issuing Date** 12-Dec-2019

**Revision Note** I14-Feb-2019 (section 9)



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**End of Safety Data Sheet**