

# SAFETY DATA SHEET

## SECTION 1) IDENTIFICATION

**Product Name:** SURFOX-E  
**SDS No.:** S-06E  
**Product Code:** 54-A 041 (100ml)

**Revision Date:** Jun 28, 2022  
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**Supersedes Date:** N.A.

**Manufacturer's Name:** Canada - Walter Surface Technologies Inc.  
**Address:** 5977 Trans Canada Highway West Pointe-Claire, QC, CA, H9R 1C1  
**Emergency Phone:** INFOTRAC® 1-800-535-5053. International call collect: 1-352-323-3500 24 hours/day, 7 days/week.  
**Information Phone Number:** +1 (888) 592-5837  
**Fax:** (514) 630-2825  
**Product/Recommended Uses:** SURFOX Etching Solution.

## SECTION 2) HAZARDS IDENTIFICATION

### Type of product

Liquid

### Classification of the substance or mixture

Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

### Hazards Not Otherwise Classified (HNOC) (Physical & Health)

no data available

## SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

### Substance/Mixture

The product is a mixture.

None of the chemicals in this product are hazardous according to the GHS.

## SECTION 4) FIRST-AID MEASURES

### Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.

### Eye Contact

If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. If eye irritation persists: Get medical advice/attention.

### Skin Contact

Rinse/wash with lukewarm, gently flowing water and mild soap for 5 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

### Ingestion

If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Rinse mouth. If you feel unwell/If concerned: Get medical advice/attention.

#### **Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient. Treat according to symptoms (decontamination, vital functions), no known specific antidote.

#### **Most important symptoms/effects, acute and delayed**

##### **Eye contact**

No known significant effects or critical hazards.

##### **Inhalation**

No known significant effects or critical hazards.

##### **Skin contact**

No known significant effects or critical hazards.

##### **Ingestion**

No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms**

##### **Eye contact (OE)**

No known significant effects or critical hazards.

##### **Inhalation (OE)**

No known significant effects or critical hazards.

##### **Skin contact (OE)**

No known significant effects or critical hazards.

##### **Ingestion (OE)**

No known significant effects or critical hazards.

## **SECTION 5) FIRE-FIGHTING MEASURES**

#### **Suitable Extinguishing Media**

Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Large Fire: Dry chemical, CO<sub>2</sub>, alcohol resistant foam or water spray Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

#### **Unsuitable Extinguishing Media**

Do not use water jet.

#### **Specific Hazards in Case of Fire**

In case of fire, hazardous decomposition products may include carbon oxides. Dense smoke may be generated while burning.

#### **Fire-fighting Procedures**

Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray is recommended to cool or protect exposed materials or structures. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

#### **Special Protective Actions**

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## **SECTION 6) ACCIDENTAL RELEASE MEASURES**

#### **Emergency Procedure**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Isolate hazard area and keep unauthorized personnel away. Do not touch or walk through spilled material. Ventilate closed spaces before entering.

#### **Recommended Equipment**

See section 8 for specifics on protective personal equipment (PPE).

**Personal Precautions**

Avoid breathing vapor or mist. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

**Environmental Precautions**

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

**Methods and Materials for Containment and Cleaning up**

Stop spill/release if it can be done safely. Move containers from spill area. Dilute with water and mop up if water-soluble. Dispose of contaminated materials according to federal, state and local regulations. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

**SECTION 7) HANDLING AND STORAGE**

**General**

Avoid breathing vapor or mist. Avoid contact with skin, eye or clothing. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Use good personal hygiene practices. Wash hands after use.

**Ventilation Requirements**

Report ventilation failures immediately. Use only with adequate ventilation to control air contaminants to their exposure limits.

**Storage Room Requirements**

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and strong oxidizers. Keep container(s) tightly closed and properly labeled. Containers that have been opened must be carefully resealed to prevent leakage.

**SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

Occupational exposure limit : None.

**Eye protection**

Wear eye protection with side shields or goggles.

**Skin Protection**

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber.

**Respiratory protection**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

**Appropriate Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	OSHA TWA (mg/m3)
No applicable chemical	-	-	-	-	-	-	-	-

Chemical Name	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA Carcinogen	OSHA Tables (Z1, Z2, Z3)	OSHA Skin designation	CAN_ONtmg	CAN_ONtppm
No applicable chemical	-	-	-	-	-	-	-	-

Chemical Name	CAN_ONsmg	CAN_ONsppm	NIOSH STEL (ppm)	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
No applicable chemical	-	-	-	-	-	-	-

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

#### 9.1 Physical and Chemical Properties

Type of product : liquid.

Density	8.35 lb/gal
Specific Gravity	1.00
% VOC	0.00%
Density VOC	0.00 lb/gal

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Appearance	Clear liquid
Odor Threshold	N/A
Odour	N/A
pH	7.00
Water Solubility	Soluble in the following materials: cold water and hot water.
Flammability	
Flash Point Symbol	N/A
Flash Point	93.30 °C
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Density	N/A
Freezing Point	N/A
Melting Point	N/A
Initial Boiling Point and Boiling Point Range	N/A
Auto Ignition Temp	N/A
Evaporation Rate	N/A
Coefficient Water/Oil	N/A
Vapor Pressure (Calculated @ 20 C/68 F)	0.00 mmHg
Decomposition Pt	N/A

## SECTION 10) STABILITY AND REACTIVITY

### Stability

Stable under normal storage and handling conditions.

### Conditions To Avoid

Avoid heat, sparks, flame, high temperature and contact with incompatible materials.

### Hazardous Reactions/Polymerization

No data available.

### Incompatible Materials

Strong bases, acids, and oxidizing agents.

## Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Oxides of carbon.

## SECTION 11) TOXICOLOGICAL INFORMATION

### Acute Toxicity

Based on available data, the classification criteria are not met.

The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l

### Aspiration Hazard

Based on available data, the classification criteria are not met.

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

### Reproductive Toxicity

Based on available data, the classification criteria are not met.

### Respiratory/Skin Sensitization

Based on available data, the classification criteria are not met.

### Serious Eye Damage/Irritation

OVER-EXPOSURE SIGNS/SYMPTOMS: Adverse symptoms may include pain or irritation, watering, redness.

Based on available data, the classification criteria are not met.

### Skin Corrosion/Irritation

OVER-EXPOSURE SIGNS/SYMPTOMS: Adverse symptoms may include pain or irritation, redness.

Based on available data, the classification criteria are not met.

### Specific Target Organ Toxicity - Repeated Exposure

Based on available data, the classification criteria are not met.

### Specific Target Organ Toxicity - Single Exposure

Based on available data, the classification criteria are not met.

### Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

## SECTION 12) ECOLOGICAL INFORMATION

### Toxicity

Based on available data, the classification criteria are not met.

### Persistence and Degradability

No data available.

### Bioaccumulative Potential

No data available.

### Mobility in Soil

No data available.

### Other Adverse Effects

No data available.

## SECTION 13) DISPOSAL CONSIDERATIONS

### Waste Disposal

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws.

## SECTION 14) TRANSPORT INFORMATION

	IATA Information	IMDG Information	U.S. DOT Information	Canada TDG Information
<b>UN number:</b>	Not Regulated	Not Regulated	Not Regulated	Not Regulated
<b>Proper shipping name:</b>	N/A	N/A	N/A	N/A
<b>Hazard class:</b>				Not Applicable
<b>Hazard class:</b>	Not Applicable	Not Applicable	Not Applicable	
<b>Packaging group:</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Hazardous substance (RQ):</b>			No Data Available	
<b>Marine Pollutant:</b>	NA	No Data Available	No Data Available	No Data Available
<b>Note / Special Provision:</b>	No Data Available	No Data Available	No Data Available	No Data Available
<b>Toxic-Inhalation Hazard:</b>	NA	NA	No Data Available	No Data Available

## SECTION 15) REGULATORY INFORMATION

### U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.

### Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)

None of the components are listed.

### Clean Air Act Section 602 Class I Substances

None of the components are listed.

### Clean Air Act Section 602 Class II Substances

None of the components are listed.

### DEA List I Chemicals (Precursor Chemicals)

None of the components are listed.

### DEA List II Chemicals (Essential Chemicals)

None of the components are listed.

### SARA 302/304

None of the components are listed.

### SARA 313

None of the components are listed.

### SARA 311/312

None of the components are listed.

### States regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

## Canada

Canadian NPRI : None of the components are listed.

CEPA toxic substance : None of the components are listed.

Canada inventory (DSL NDSL) : All components are listed or exempted.

## International lists

Taiwan : All components are listed or exempted.

Australia : All components are listed or exempted.

Europe : All components are listed or exempted.

Turkey : All components are listed or exempted.

China : All components are listed or exempted.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

## California Proposition 65

Prop 65: No products found

CAS	Chemical Name	% By Weight	Regulation List
No applicable CAS	No applicable chemical	-	-

Product does not contain any chemicals listed under California Proposition 65

## SECTION 16) OTHER INFORMATION

### Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL - Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

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