Version: 1.0

Effective Date: Dec-02-2020
Previous Date: --



# SAFETY DATA SHEET E.C.O.FILM\* EF2605

#### 1. Identification

Product identifier E.C.O.FILM EF2605

Other means of identification None.

**Recommended use**Corrosion inhibitor **Recommended restrictions**None known.

#### Company/undertaking identification

SUEZ WTS USA, Inc. 4636 Somerton Road Trevose, PA 19053

T 215 355 3300, F 215 953 5524

#### **Emergency telephone**

(800) 877 1940

# 2. Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** May be corrosive to metals. Causes skin irritation. Causes serious eye damage.

Precautionary statement

**Prevention** Keep only in original container. Wash thoroughly after handling. Wear eye protection/face

protection. Wear protective gloves.

Response If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated

clothing and wash before reuse. Absorb spillage to prevent material damage.

**Storage** Store in corrosive resistant container with a resistant inner liner.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

**Mixtures** 

 Components
 CAS #
 Percent

 Inorganic Salt
 TSRN 125438 - 12059

 Organic Acid Polymer
 TSRN 125438 - 12058

**Composition comments** 

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation.

#### 4. First-aid measures

**Inhalation**If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

**Skin contact**Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness

Provide general supportive measures and treat symptomatically. Keep victim under observation.

and pain.

Indication of immediate medical attention and special

symptoms/effects, acute and

delayed

treatment needed

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire.

Symptoms may be delayed.

media

**Specific hazards arising from** During fire, gases hazardous to health may be formed. **the chemical** 

**Special protective equipment**and precautions for firefighters
Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire fighting In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers / tanks with water spray.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

**Precautions for safe handling**Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective

equipment. Observe good industrial hygiene practices. Use care in handling/storage.

**Conditions for safe storage, including any incompatibilities**Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in original tightly closed container. Keep only in the original container. Store in accordance with local/regional/national/international regulation.

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## 8. Exposure controls/personal protection

#### Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

**Form** Components Value Type Inorganic Salt (CAS TSRN TWA 1 mg/m3 Respirable fraction.

125438 - 12059)

US. NIOSH: Pocket Guide to Chemical Hazards

Components Value Type 2 mg/m3

Inorganic Salt (CAS TSRN TWA 125438 - 12059)

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Eye wash fountain and emergency showers are recommended. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Wear appropriate chemical resistant gloves. The choice of an appropriate glove does not only Hand protection

depend on its material but also on other quality features and is different from one producer to the

other. Glove selection must take into account any solvents and other hazards present.

Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. A respiratory protection program that meets OSHA's 29 CFR 1910.34 and ANSI Z88.2 requirements must be followed whenever

workplace conditions warrant a respirator's use.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Color Yellow Liquid Physical state Odor Mild

**Odor threshold** Not available. 28 °F (-2 °C) Melting point/freezing point Initial boiling point and boiling 212 °F (100 °C)

range

Flash point Not Applicable Slower than Ether **Evaporation rate** Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%)

Vapor pressure 18 mmHq 70 °F (21 °C) Vapor pressure temp.

Vapor density < 1 0.89 Relative density

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Relative density temperature

Solubility(ies)

70 °F (21 °C)

100 % Solubility (water)

**Partition coefficient** 

Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** 16 mPa.s **Viscosity** Viscosity temperature 70 °F (21 °C)

Other information

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing. 34 °F (1 °C) Pour point

Specific gravity 0.889

VOC 0 % ESTIMATED

pH (concentrated product) 1.6 Neat

pH in aqueous solution 2.6 (5% Solution)

# 10. Stability and reactivity

Reactivity May be corrosive to metals.

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials. None under normal conditions.

Incompatible materials Strong oxidizing agents. Metals.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye damage.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain.

## Information on toxicological effects

**Acute toxicity** Not known.

Product	Species	Test Results
	-p	

#### E.C.O.FILM EF2605 (CAS Mixture)

**Acute** Dermal

LD50 Rabbit > 5000 mg/kg, (Calculated according to

GHS additivity formula)

Inhalation

LC50 Rat > 5 mg/l, 4 hours, (Calculated according to

GHS additivity formula)

Oral

LD50 Rat > 5000 mg/kg, (Calculated according to

GHS additivity formula)

Skin corrosion/irritation Causes skin irritation.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Serious eve damage/eve

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization This product is not expected to cause respiratory sensitization. Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

ACGIH Carcinogens

Inorganic Salt (CAS TSRN 125438 - 12059) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

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

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

# **Ecotoxicity**

Product		Species	Test Results
E.C.O.FILM EF2605 (CAS	Mixture)		
Aquatic			
Crustacea	100% Mortality	Mysid Shrimp	1250 mg/L, Static Renewal Bioassay, 96 H, (pH adjusted)
	LC50	Daphnia magna	> 10000 mg/L, Static Renewal Bioassay, 48 H, (pH adjusted)
		Mysid Shrimp	4657.9 mg/L, Static Renewal Bioassay, 96 H, (pH adjusted)
	NOEL	Daphnia magna	10000 mg/L, Static Renewal Bioassay, 48 H, (pH adjusted)
Fish	LC50	Fathead Minnow	9766.8 mg/L, Static Renewal Bioassay, 96 H, (pH adjusted)
		Rainbow Trout	> 10000 mg/L, Static Renewal Bioassay, 96 H, (pH adjusted)
	NOEL	Fathead Minnow	5000 mg/L, Static Renewal Bioassay, 96 H, (pH adjusted)
		Rainbow Trout	10000 mg/L, Static Renewal Bioassay, 96 H, (pH adjusted)

Bioaccumulative potential

No data available. Mobility in soil Not available. Other adverse effects

Persistence and degradability

- COD (mgO2/g) 37

# 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the **Disposal instructions** material under controlled conditions in an approved incinerator. Dispose of contents/container in

accordance with local/regional/national/international regulations.

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**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code D002: Waste Corrosive material [pH <= 2 or => 12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT

UN number UN1760

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III

Special precautions for user Not available.

ERG number 154

Some containers may be exempt from Dangerous Goods/Hazmat Transport Regulations, please check BOL for exact container classification.

IATA

UN number UN1760

UN proper shipping name Corrosive liquid, n.o.s. (Organic Acid Polymer, Salt)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards No.
ERG Code 154

Special precautions for user Not available.

**IMDG** 

UN number UN1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (Organic Acid Polymer, Inorganic Salt), RQ(Inorganic Salt)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III

**Environmental hazards** 

Marine pollutant No.

EmS F-A, S-B

Special precautions for user Not available.

DOT



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# 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Inorganic Salt (CAS TSRN 125438 - 12059) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard Corrosive to metal Skin corrosion or irritation

Yes

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

#### **Inventory status**

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **US state regulations**

#### **California Proposition 65**

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

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## 16. Other information, including date of preparation or last revision

Dec-02-2020 Issue date **Revision date** Dec-02-2020

Version # 1.0

Health: 3 NFPA ratings

Flammability: 0

Instability: 0

NFPA ratings



ACGIH: American Conference of Governmental Industrial Hygienists List of abbreviations

**BOD: Biochemical Oxygen Demand** 

CAS: Chemical Abstract Service Registration Number

COD: Chemical Oxygen Demand

DOT: Department of Transportation (49 CFR 172.101).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal Concentration, 50%

LD50: Lethal Dose, 50%

NOEL: No Observed Effect Level

OSHA: Occupational Safety & Health Administration.

STEL: Short Term Exposure Limit TOC: Total Organic Carbon TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Information System.

References: No data available

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge,

> information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

**Revision information** Product and Company Identification: Commercial Names

Exposure controls/personal protection: Respiratory protection

This SDS has been prepared by SUEZ Regulatory Department (1-215-355-3300). Prepared by

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