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# SAFETY DATA SHEET E.C.O.FILM\* EF2602

# 1. Identification

Product identifier Other means of identification Recommended use Recommended restrictions E.C.O.FILM EF2602 None. Corrosion inhibitor None known.

#### Company/undertaking identification

Veolia WTS USA, Inc. 3600 Horizon Blvd. Trevose, PA 19053 T 215 355 3300, F 215 953 5524

#### **Emergency telephone**

(800) 877 1940

# 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral Categoria	
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 1B
OSHA defined hazards	Not classified.	
Label elements		

Signal word	Warning
Hazard statement	Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation.
Precautionary statement	
Prevention	Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection. Wear protective gloves.
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

# 3. Composition/information on ingredients

Mixtures

Components		CAS #	Percent
CALCIUM NITRATE, TETRAHYDI	RATE	13477-34-4	60 - 80
Composition comments	Information for specific product ingredient COMMUNICATION STANDARD is listed. assessment of the potential hazards of th	Refer to additional sections of	
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at reartificial respiration if needed. Call a poiso		
Skin contact	Remove contaminated clothing. Wash wit medical advice/attention. Wash contaminated		kin irritation occurs: Get
Eye contact	Immediately flush eyes with plenty of wate present and easy to do. Continue rinsing.		
Ingestion	Rinse mouth. If vomiting occurs, keep hea Get medical advice/attention if you feel ur		doesn't get into the lungs
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may incluvision. Skin irritation. May cause redness		swelling, and blurred
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and under observation. Symptoms may be de		ictim warm. Keep victim
General information	Ensure that medical personnel are aware protect themselves. Show this safety data		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. C	Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, a	s this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health ma	ay be formed.	
Special protective equipment and precautions for firefighters	Wear full protective clothing, including held demand breathing apparatus, protective contents of the second		essure or pressure
Fire fighting equipment/instructions	In case of fire and/or explosion do not bre consider the hazards of other involved ma without risk. Cool containers / tanks with v	aterials. Move containers from f	
Specific methods	Use standard firefighting procedures and	consider the hazards of other in	nvolved materials.
General fire hazards	No unusual fire or explosion hazards note	ed.	
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep appropriate protective equipment and clot spray mists. Do not touch damaged conta protective clothing. Ensure adequate vent spillages cannot be contained. For persor	hing during clean-up. Avoid inh iners or spilled material unless ilation. Local authorities should	alation of vapors and wearing appropriate be advised if significant
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if the possible. Absorb in vermiculite, dry sand or recovery, flush area with water.		
	Small Spills: Wipe up with absorbent mate remove residual contamination.	erial (e.g. cloth, fleece). Clean s	surface thoroughly to
	Never return spills to original containers for	or re-use. For waste disposal, s	ee section 13 of the SDS
Environmental precautions	Avoid discharge into drains, water course	s or onto the ground.	

# 7. Handling and storage

7. Hallalling and otorage	
Precautions for safe handling	Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
8. Exposure controls/perse	onal protection
Occupational exposure limits	This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide eyewash station and safety shower.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	

Hand protectionWear appropriate chemical resistant gloves. The choice of an appropriate glove does not only<br/>depend on its material but also on other quality features and is different from one producer to the<br/>other. Glove selection must take into account any solvents and other hazards present.

#### **Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protectionIf engineering controls do not maintain airborne concentrations below recommended exposure<br/>limits (where applicable) or to an acceptable level (in countries where exposure limits have not<br/>been established), an approved respirator must be worn. A respiratory protection program that<br/>meets OSHA's 29 CFR 1910.34 and ANSI Z88.2 requirements must be followed whenever<br/>workplace conditions warrant a respirator's use.Thermal hazardsWear appropriate thermal protective clothing, when necessary.

# General hygiene<br/>considerationsKeep away from food and drink. Always observe good personal hygiene measures, such as<br/>washing after handling the material and before eating, drinking, and/or smoking. Routinely wash<br/>work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

	•			
Appearance	Liquid			
Physical state	Liquid.			
Form	Not available.			
Color	Colorless			
Odor	Odorless			
Odor threshold	Not available.			
pH (concentrated product)	3.3 Neat			
Melting point/freezing point	< -0.4 °F (< -18 °C)			
Initial boiling point and boiling range	212 °F (100 °C)			
Flash point	Not Applicable			
Evaporation rate	Slower than Ether			
Flammability (solid, gas)	Not applicable.			
Upper/lower flammability or explosive limits				
Explosive limit - lower (%)	Not available.			
Explosive limit - upper (%)	Not available.			
Vapor pressure	18 mmHg			
Vapor pressure temp.	70 °F (21 °C)			
Vapor density	< 1			
Relative density	1.54			
Relative density temperature	70 °F (21 °C)			
Solubility(ies)				
Solubility (water)	100 %			
Partition coefficient (n-octanol/water)	Not available.			
Material name: E.C.O.FILM* EF2602				
Version number: 1.2				

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC	0 % ESTIMATED

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Nitrogen oxides (NOx). Oxides of calcium.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause irritation to respiratory organs.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

# Information on toxicological effects

Acute toxicity Harmful if inhaled. Harmful if swallowed.

·····,		
Product	Species	Test Results
E.C.O.FILM EF2602		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	458 mg/kg (Calculated according to GHS additivity formula)
Components	Species	Test Results
CALCIUM NITRATE, TETRAHY	DRATE (CAS 13477-34-4)	
Acute		
Oral		
LD50	Rat	300 - 2000 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitizati	on	
<b>Respiratory sensitization</b>	This product is not expected to cause re	spiratory sensitization.
Skin sensitization	This product is not expected to cause sl	kin sensitization.
Germ cell mutagenicity	No data available to indicate product or mutagenic or genotoxic.	any components present at greater than 0.1% are

CALCIUM NITRATE, TE (CAS 13477-34-4) OSHA Specifically Regulate Not listed.	Evaluation of Carcinogenicity FRAHYDRATE d Substances (29 CFR 1910.10 ogram (NTP) Report on Carcino	
Not listed.		
Reproductive toxicity	This product is not expected to	cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Based on available data, the cl	assification criteria are not met.

# 12. Ecological information

# Ecotoxicity

Product		Species	Test Results
Aquatic			
Crustacea	EC50	Daphnia magna	490 mg/L, 48 H
Fish	LC50	Bluegill Sunfish	2400 mg/L, 96 H
Persistence and degradability	No data i	s available on the degradability of	any ingredients in the mixture.
Bioaccumulative potential	No data a	available.	
Mobility in soil	No data a	available.	
Other adverse effects	Not availa	able.	
13. Disposal consideration	ons		
Disposal instructions	material u container	under controlled conditions in an ap s. If discarded, this product is cons	ntainers at licensed waste disposal site. Incinerate the oproved incinerator. Do not incinerate sealed sidered a RCRA ignitable waste, D001. Dispose of regional/national/international regulations.
Local disposal regulations	Dispose i	n accordance with all applicable re	gulations.
Hazardous waste code	The wast disposal (	•	ussion between the user, the producer and the waste

 Waste from residues / unused
 Dispose of in accordance with local regulations. Empty containers or liners may retain some products

 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).

 Conteminated neckering
 Since omptiod containers may retain product residue following the line of the sector.

**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

Not regulated as dangerous goods.

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

# ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

### 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Exp	ort Notification (40 C	FR 707, Subpt. D)		
Not regulated.		0		
CERCLA Hazardous Substan	nce List (40 CFR 302.4	4)		
Not listed. SARA 304 Emergency releas	se notification			
Not regulated.				
<b>OSHA Specifically Regulate</b>	d Substances (29 CFF	R 1910.1001-1053)		
Not listed.				
Superfund Amendments and Re	authorization Act of 1	986 (SARA)		
SARA 302 Extremely hazard	lous substance			
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard	Acute toxicity (any ro Skin corrosion or irrita			
categories	Serious eye damage			
	Carcinogenicity			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
CALCIUM NITRATE, TET	RAHYDRATE	13477-34-4	60 - 80	
Other federal regulations				
Clean Air Act (CAA) Section	112 Hazardous Air Po	ollutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Rel	lease Prevention (40 CI	FR 68 130)	
Not regulated.			K 00.100)	
Safe Drinking Water Act	Contains component	(s) regulated under the S	afe Drinking Water Act.	
(SDWA)		(-, -5	5	
Inventory status				
Inventory status Country(s) or region	Inventory name			On inventory (yes/no)*
-	Inventory name	s List (DSL)		<b>On inventory (yes/no)</b> * Yes
Country(s) or region	•			
<b>Country(s) or region</b> Canada Canada United States & Puerto Rico	Domestic Substances Non-Domestic Substa Toxic Substances Co	ances List (NDSL) ontrol Act (TSCA) Invento	•	Yes No Yes
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List of abbreviations	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. OSHA: Occupational Safety & Health Administration. WHMIS: Workplace Hazardous Materials Information System. ACGIH: American Conference of Governmental Industrial Hygienists BOD: Biochemical Oxygen Demand CAS: Chemical Abstract Service Registration Number COD: Chemical Oxygen Demand IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods Code LC50: Lethal Concentration, 50% LD50: Lethal Dose, 50% NOEL: No Observed Effect Level STEL: Short Term Exposure Limit TOC: Total Organic Carbon TWA: Time Weighted Average
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.
Prepared by	This SDS has been prepared by Veolia Water Technologies & Solutions' Regulatory Department (1-215-355-3300).

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