SAFETY DATA SHEET

Spotless™ EFS

SECTION 1: IDENTIFICATION

Product identifier used on a label:	**Spotless™ EFS**
Product code:	5356
Recommended use of the chemical and restrictions on use:	Industrial use.
Chemical family:	Mixture.
Name, address and phone # of supplier:	Aqua Bond Inc. PO Box 63635, Toronto, ON, M1V 5K2 (416) 754-7211
24 Hr. Emergency phone #	**CANUTEC (613) 996-6666**

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

SKIN CORROSION/IRRITATION: CATEGORY 1B – Causes severe skin burns and eye damage.

EYE DAMAGE/IRRITATION: CATEGORY 1 – Causes serious eye damage.

CARCINOGENICITY: CATEGORY 2 – Suspected of causing cancer.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – CATEGORY 3 – May cause respiratory irritation.

HAZADOUS TO THE AQUATIC ENVIRONMENT – ACUTE HAZARD – CATEGORY 3: Harmful to aquatic life.

HAZADOUS TO THE AQUATIC ENVIRONMENT – CHRONIC HAZARD – CATEGORY 3: Harmful to aquatic life with long lasting effects.

Label elements:



Signal word: Danger

Hazard statements:

H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer.
H402: Harmful to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dusts or mists.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P281: Use personal protective equipment as required.

Response

P308+P313: IF exposed or concerned: Get medical advice/attention.

Ingestion:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P310: Immediately call a POISON CENTER or doctor/physician.

Skin:

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P310: Immediately call a POISON CENTER or doctor/physician.

Inhalation:

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310: Immediately call a POISON CENTER or doctor/physician.

Eyes:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.

Storage

P403+P233: Store in in well-ventilated place. Keep container tightly closed.
P405: Store Locked up.

Disposal

P501: Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

Supplemental label elements: Do not taste or swallow. Wash thoroughly after handling. Prevent dust accumulation.

Other hazards: Causes digestive tract burns.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/ mixture: Mixture

Ingredient name	**CAS Number**	**Concentration (wt. %)**
Tetrasodium Pyrophosphate	7722-88-5	30-40%
Sodium Salt	-	20-30%
Sodium Metasilicate	6834-92-0	10-20%
Surfactant	-	1-10%
Amide	-	0.1-1.0%

SECTION 4: FIRST-AID MEASURES

Description of first aid measures:

Ingestion	DO NOT induce vomiting, rinse mouth. Administer water if patient is conscious. Immediately call a POISON CENTER or doctor/physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately call a POISON CENTER or doctor/physician.
Skin contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Immediately call a POISON CENTER or doctor/physician.
Eye contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed:
Corrosive to the digestive tract, causes burns. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.
Indication of any immediate medical attention and special treatment needed: Not available.
Protection of first-aiders: First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable	None known.
Flash point:	Not Available.
Autoignition temperature:	Not Available.
Special hazards arising from the substance:	
Hazardous thermal decomposition products:	Carbon dioxide, carbon monoxide, phosphorus oxides, metal oxide/oxides.
Specific hazards:	This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate

	respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots.
Environmental precautions:	Should not be released into environment. Prevent from reaching drains, sewer, or waterway.
Methods and materials for containment and cleaning up:	Wear protective eyeware, gloves, and clothing. Refer to Section 8. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with HEPA filter and place in closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.
Special spill response procedures:	In case of transportation accident, contact CHEMTREC at 1-800-424-9300.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Put on appropriate personal protective equipment. Avoid exposure – obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container.
Conditions for safe storage:	Storage temperature: 5 to 40°C (41 to 104°F). Store in accordance with local regulations. Store in a segregated and approved area. Store protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Do not taste or swallow. Wash thoroughly after handling. Prevent dust accumulation. Containers that have been opened must be resealed and kept upright. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Incompatible materials:	Acids, moisture, oxidizing materials, metals, alkalis, fluoride.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Exposure limits

Ingredient	**Exposure limits**
6834-92-0	STEL 15 minutes - 5 mg/m^3
Individual protection measures:	Eyes/face: Chemical splash goggles and face shield. Skin: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a

risk assessment indicates this is necessary. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory: Wear appropriate respirator where spray mist occurs. Be sure to use a NIOSH approved dust and mist respirator or equivalent.
Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Beige powder
Odor:	Mild
Odor threshold:	Not available.
pH:	Not applicable.
Melting point:	Not available.
Freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not applicable.
Flammability:	Not applicable.
Upper and lower flammability limits:	Not applicable.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	Not available.
Solubility (in water):	Soluble
VOC	0.002 g/l
Partition coefficient n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	Not available.
Viscosity:	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity and chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions and conditions to avoid:	Under normal conditions of storage and use, hazardous reactions will not occur.
Incompatible materials:	Acids, moisture, oxidizing materials, metals, alkalis, fluoride.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity data:

7722-88-5	LD50 Rat Oral: >2980 mg/kg Skin – Guinea pig: 250 mg/24h – Moderate irritant Skin – Human: 250 mg/24h – Severe irritant

	Skin – Rabbit: 250 mg/24h – Severe irritant
Sodium Salt	LD50 Rat Oral: >4150 mg/kg LD50 Rabbit Dermal: >7940 mg/kg
6834-92-0	LD50 Rat Oral: 1153 mg/kg
Surfactant	LD50 Rat Oral: 1800 mg/kg Eyes – Rabbit: 10 µL/24h – Moderate irritant Skin – Rabbit: 500 µL /24h – Mild irritant
Amide	LD50 Rat Oral: 2700 mg/kg Eyes – Rabbit: 100 µL – Severe irritant Skin – Rabbit: 300 µL – Moderate irritant
Information on the likely routes of exposure:	Skin and Eyes: yes Inhalation: yes Ingestion: yes
Potential health effects (acute):	Causes serious eye damage. Causes severe burns. May cause respiratory irritation. Corrosive to the digestive tract, causes burns.
Delayed and immediate effects, chronic effects from short and long term exposure:	Not available.
Potential chronic health effects:	Not available.
Carcinogenicity:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity:	Not available.
Teratogenicity:	Not available.
Developmental effects:	Not available.
Fertility effects:	Not available.
Sensitization:	Not available.
Toxicological effects:	Not available.
Acute toxicity:	Not available.
Irritation/corrosion:	Causes serious eye damage. Causes severe burns. May cause respiratory irritation. Corrosive to the digestive tract, causes burns.

Specific target organ toxicity single exposure: Category 3 – May cause respiratory irritation.
Specific target organ toxicity repeated exposure: Not classified.
Aspiration hazard: Not classified.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

7722-88-5	Aquatic Invertebrates:	EC50 Daphnia: >100 mg/L/48h
Sodium Salt	Aquatic Invertebrates:	EC50 Daphnia: 177 mg/L/50h
	Fish:	LC50 Gambusia affins – Adult: 151 ppm/96h Fresh water
6834-92-0	Crustaceans:	EC50 Ceriodaphnia dubia – Neonate: 33.53 mg/L/48h Fresh water
	Fish:	LC50 Gambusia affins – Adult: 2320 ppm/96h Fresh water
Surfactant	Crustaceans:	LC50 Ceriodaphnia rigaudi – Neonate: 5.85 mg/L/48h Fresh water
	Aquatic Invertebrates:	LC50 Daphnia magna - Neonate: 11.2 mg/L/48h Fresh water

Fish:	LC50 Pimephales promelas: 4500 µg/L/96h Fresh water

Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable 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. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	TDG
UN Number:	UN3262
UN proper shipping name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.
Transport hazard class:	8
Packing group:	III
Environmental hazard:	No data available.
Special precautions for user:	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident.

SECTION 15: REGULATORY INFORMATION

United States

Toxic Substances Control Act (TSCA)	All components are listed or exempted.
Superfund Amendments and Reauthorization Acts	Section 311/312: Immediate (acute) health hazard; Delayed (chronic) health hazard.

Canada

Canadian Domestic Substances List (DSL):	All components are listed or exempted.

SECTION 16: OTHER INFORMATION

Revision date: January 21, 2021
UN = United Nations

Disclaimer

While the information and recommendations set forth are believed to be accurate as of data hereof, Aqua Bond Inc., makes no warranty with respect thereto and disclaims all liability from reliance thereon.