SAFETY DATA SHEET

Spotless™ ESS

SECTION 1: IDENTIFICATION

Product identifier used on a label:	**Spotless™ ESS**
Product code:	5263
Recommended use of the chemical and restrictions on use:	Cleaner for surface finishing industry.
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: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 1A

Label elements:



Signal word: Danger

Hazard statements: Causes serious eye irritation.
May cause cancer.

Precautionary statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour. Wash hands thoroughly after handling. IF exposed or concerned: Get medical attention. IF exposed or concerned: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/ mixture: Mixture

Ingredient name	CAS Number	Concentration (%)
Oxirane, 2-methyl-, polymer with oxirane	9003-11-6	1-10
Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salts	68081-81-2	1-10
Dodecan-1-ol, ethoxylated	9002-92-0	1-10
Sodium laureth sulphate	9004-82-4	1-10
Ethanol	64-17-5	0.1-1.0

Concentrations are shown as ranges due to batch variation.

SECTION 4: FIRST-AID MEASURES

Description of first aid measures:

Ingestion	Get medical attention. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous due to aspiration. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Get medical attention if breathing is difficult.
Skin contact	Remove contaminated clothing and shoes. Wash skin thoroughly with water.
Eye contact	Get medical attention immediately. Check for and remove any contact lenses. Immediately flush eyes with running water for at least 30 minutes, keeping eyelids open.

Most important symptoms and effects, both acute and delayed:

Causes serious eye irritation. Adverse symptoms may include pain, watering, irritation.

Indication of any immediate medical attention and special treatment needed:

No specific treatment. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable	Use appropriate extinguishing media for surrounding fires.
Unsuitable	None known.
Special hazards arising from the substance:	If heated the pressure in a container will rise which may result in container bursting.
Hazardous thermal decomposition products:	Carbon dioxide, carbon monoxide, sulphur oxides, metal oxides.
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.
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up:	Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Special spill response procedures:	In case of transportation accident, contact CANUTEC (613) 996-6666.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Put on appropriate personal protective equipment. 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 vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
Conditions for safe storage:	Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Incompatible materials:	None known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Exposure limits

Ingredient	**Exposure limits**
Ethanol	**ACGIH TLV (United States, 4/2014). Notes: 1996 Adoption Refers to Appendix A -- Carcinogens.** STEL: 1000 ppm 15 minutes. **NIOSH REL (United States, 10/2013).** TWA: 1900 mg/m³ 10 hours. TWA: 1000 ppm 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 1900 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.
Engineering controls:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection measures:	Eyes/face: Chemical splash goggles. 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: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid. Dark brown.
Odor:	Sweet.
Odor threshold:	Not available.
pH:	10.2-11.0
Melting point:	Not available.
Freezing point:	-2°C
Initial boiling point and boiling range:	100-110°C (212°F)
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability:	Not available.
Upper and lower flammability limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	1.1
Solubility:	Soluble in cold and hot water.
Partition coefficient n-	Not available.

octanol/water:	
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	None known.
Incompatible materials:	None known.
Hazardous decomposition products:	Under normal conditions of storage, no hazardous decomposition products are anticipated.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure:	SKIN AND EYES: yes INHALATION: yes INGESTION: yes
Potential health effects (acute):	EYE: Causes serious eye irritation. Adverse symptoms may include pain, watering, redness. INHALATION: No known significant effects or critical hazards. SKIN: No known significant effects or critical hazards. INGESTION: No known significant effects or critical hazards.
Delayed and immediate effects, chronic effects from short and long term exposure:	There are no data available on the mixture itself. Based on the properties of components, this mixture may cause cancer due to presence of ethanol, however, it is dependent on duration and level of exposure and route of exposure.
Potential chronic health effects:	No known significant effects or critical hazards.
Carcinogenicity:	May cause cancer. Risk of cancer depends on duration and level of exposure.

Classification:

Product	**OSHA**	**IARC**	**NTP**
Ethanol	Not listed.	1	-

Mutagenicity:

Product	Test	Experiment	Result
Ethanol	-	Experiment: In vitro Subject: Mammalian-animal Cell: Somatic	Equivocal

Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.
Sensitization: There are no data available on the mixture itself.

Toxicological effects:
Acute toxicity:

Product	Result	Species	Dose	Exposure
Oxirane,2-methyl-,polymer with oxirane	LD oral	Mouse	1830 mg/kg	-
	LD50 oral	Rat	5700 mg/kg	-
Dodecan-1-ol, ethoxylated	LD50 oral	Rat	4150 mg/kg	-
Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salts	LD50 oral	Rat	500 mg/kg	-
Sodium laureth sulphate	LD50 oral	Rat	1600 mg/kg	-
Ethanol	LC50 inh vapour	Rat	124700 mg/m3	4 hr
	LD50 oral	Rat	10600mg/kg	-

Acute toxicity estimate:

Route	ATE value
Oral	19305 mg/kg

Irritation/corrosion:

Product	Result	Species	Score	Exposure
Dodecan-1-ol, ethoxylated	Eyes- severe irritant	Rabbit	-	24 hr 750 micrograms
	Skin-Moderate irritant	Human	-	72 hr 6 mg, intermittent
Sodium laureth sulphate	Eyes- moderate irritant	Rabbit	-	24 hr 20mg
	Skin-moderate irritant	Rabbit	-	24hr 25mg
Ethanol	Eyes- mild irritant	Rabbit	-	24 hr 500mg
	Skin-mild irritant	Rabbit	-	400mg

Specific target organ toxicity single exposure:

Name	Category	Route	Target organs
Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salt	3	Not applicable.	Respiratory tract irritation.

Specific target organ toxicity repeated exposure: Not available.
Target organs: Not available.

Aspiration hazard: Not available.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Name	Result	Species	Exposure
Oxirane,2-methyl-,polymer with oxirane	Acute EC50>100 mg/L	Algae	72 hours
Dodecan-1-ol, ethoxylated	Acute LC50 6460-7580 µg/L fresh water	Daphnia	48 hours
Sodium laureth sulphate	Acute EC50 3.12mg/L fresh water	Crustaceans-ceriodaphnia	48 hours
Ethanol	Acute EC50 17.921 mg/L marine water	Algae-ulva pertusa	96 hours

Persistence and degradability Not available.

Bioaccumulative potential

Name	LogPow	BCF	Potential
Ethanol	-0.35	-	low

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 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. 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.

SECTION 14: TRANSPORT INFORMATION

	TDG
UN Number:	Not regulated.
UN proper shipping name:	-
Transport hazard class:	-
Packing group:	-
Environmental hazard:	No.
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 or spillage.

SECTION 15: REGULATORY INFORMATION

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

SECTION 16: OTHER INFORMATION

Revision date: November 27, 2023
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Disclaimer

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