

1. Product and Company Identification

Product identifier	OUT Pro Wash
Other means of identification	Odor Eliminator Detergent
Recommended use	Active Wear Detergent
Recommended restrictions	None known.
Manufacturer information	Iron Out dba Summit Brands 7201 Engle Road Fort Wayne, IN 46804-5875 US Phone: 260-483-2519 Emergency Phone: 1-800-424-9300 (CHEMTREC)
Supplier	See above.

2. Hazards Identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	
Label elements		



Signal word	Danger
Hazard statement	Causes serious eye damage. Causes skin irritation.
Precautionary statement	
Prevention	Wash thoroughly after handling. Wear protective gloves. Wear eye protection/face protection.
Response	IF ON SKIN: Wash with plenty of water. Specific treatment (see information on this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Alcohols, C6-10, ethoxylated propoxylated		68987-81-5	1-5*
Alcohols, C9-11, ethoxylated		68439-46-3	1-5*
Benzenesulfonic acid, C10-16-alkyl derivatives, potassium salts		68584-27-0	5-10*

Chemical name	Common name and synonyms	CAS number	%
Hydrogen peroxide		7722-84-1	1-5*
Monoethanolamine		141-43-5	0.1-1*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.
*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Skin contact	IF ON SKIN: Wash with plenty of water. Specific treatment (see information on this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Eye contact	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.
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media	Dry chemical powder. Foam. Water fog. Carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self-contained breathing apparatus.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	May include and are not limited to: Oxides of sulphur. Oxides of carbon.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep out of low areas. 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. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. 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.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling	Use only with adequate ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. When using do not eat or drink. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Keep container tightly closed. Avoid breathing vapors or mists of this product. Avoid contact with eyes, skin and clothing.
Conditions for safe storage, including any incompatibilities	Store in a closed container away from incompatible materials. Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1.4 mg/m ³
		1 ppm
Monoethanolamine (CAS 141-43-5)	STEL	15 mg/m ³
	TWA	6 ppm 7.5 mg/m ³ 3 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1.4 mg/m ³
		1 ppm
Monoethanolamine (CAS 141-43-5)	STEL	15 mg/m ³
	TWA	6 ppm 7.5 mg/m ³ 3 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	PEL	1.4 mg/m ³
		1 ppm
Monoethanolamine (CAS 141-43-5)	PEL	6 mg/m ³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
		3 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1.4 mg/m3
		1 ppm
Monoethanolamine (CAS 141-43-5)	STEL	15 mg/m3
		6 ppm
	TWA	8 mg/m3 3 ppm

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

Exposure guidelines

Canada - Alberta OELs: Skin designation

1,4-Dioxane (CAS 123-91-1) Can be absorbed through the skin.
Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

1,4-Dioxane (CAS 123-91-1) Can be absorbed through the skin.
Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

1,4-Dioxane (CAS 123-91-1) Can be absorbed through the skin.
Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

1,4-Dioxane (CAS 123-91-1) Can be absorbed through the skin.
Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

1,4-Dioxane (CAS 123-91-1) Can be absorbed through the skin.
Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

1,4-Dioxane (CAS 123-91-1) Can be absorbed through the skin.
Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

1,4-Dioxane (CAS 123-91-1) Can be absorbed through the skin.
Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

1,4-Dioxane (CAS 123-91-1) Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) 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.

Skin protection

Hand protection Rubber gloves. Confirm with a reputable supplier first.

Other Wear appropriate chemical resistant clothing. As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

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. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Clear
Physical state	Liquid.
Form	Liquid.
Color	Blue
Odor	Mountain air
Odor threshold	Not available.
pH	3.5 - 4
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	1.028
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of sulphur. Oxides of carbon.

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	May cause stomach distress, nausea or vomiting.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

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

Components	Species	Test Results
Alcohols, C6-10, ethoxylated propoxylated (CAS 68987-81-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, BASF
<i>Inhalation</i>		
LC50	Rat	> 50 mg/l/4h, BASF
<i>Oral</i>		
LD50	Rat	2380 mg/kg, BASF
Alcohols, C9-11, ethoxylated (CAS 68439-46-3)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA 2216 mg/kg, 24 Hours, ECHA 2000 mg/kg, 24 Hours, ECHA
	Rat	> 5000 mg/kg, HMIRA > 2000 mg/kg, 24 Hours, ECHA
<i>Inhalation</i>		
LC50	Rat	> 1600 mg/m ³ , 4 Hours, ECHA > 100 mg/m ³ , 6 hours, ECHA > 20 mg/L, 1 hours, Shell > 1.6 mg/L, 4 Hours, ECHA
<i>Oral</i>		
LD50	Rat	> 5050 mg/kg, ECHA 5130 mg/kg, ECHA 4600 mg/kg, ECHA 3488 mg/kg, ECHA 1400 mg/kg, Air products 1378 mg/kg, SAX
Benzenesulfonic acid, C10-16-alkyl derivatives, potassium salts (CAS 68584-27-0)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	
Hydrogen peroxide (CAS 7722-84-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
	Rat	3000 - 5480 mg/kg, ECHA
<i>Inhalation</i>		
LC50	Rat	> 170 mg/m ³ , 4 Hours, ECHA
<i>Oral</i>		
LD50	Rat	1270 mg/kg, ECHA 1193 mg/kg, ECHA

Components	Species	Test Results
		1026 mg/kg, ECHA, male
		872 mg/kg, ECHA
		801 mg/kg, ECHA
		693.7 mg/kg, ECHA, female
Monoethanolamine (CAS 141-43-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2881 mg/kg, 24 Hours, ECHA
		2504 mg/kg, 24 Hours
		1018 mg/kg, HMIRA
		1000 mg/kg, CCOHS
		2.5 - 2.8 ml/kg, 24 Hours
<i>Inhalation</i>		
LC50	Mouse	1210 mg/m3, 4 Hours, CCOHS
		484 ppm, 4 Hours, CCOHS
		1.2 mg/L, 4 Hours, CCOHS
	Rat	> 1.3 mg/L, 6 Hours, ECHA
<i>Oral</i>		
LD50	Guinea pig	620 mg/kg, HSDB, CCOHS
	Mouse	1475 mg/kg, CCOHS
		700 mg/kg, SAX, CCOHS
	Rat	1970 mg/kg, CCOHS
		1720 mg/kg, CCOHS, SIGMA
		1515 mg/kg, ECHA
		1089 mg/kg, ECHA
		1.2 ml/kg, ECHA
		1.1 ml/kg, ECHA
Skin corrosion/irritation	Causes skin irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitization		
ACGIH sensitization		
Propylene oxide (CAS 75-56-9)		Dermal sensitization
Canada - Alberta OELs: Irritant		
Hydrogen peroxide (CAS 7722-84-1)		Irritant
Monoethanolamine (CAS 141-43-5)		Irritant
Sulfur dioxide (CAS 7446-09-5)		Irritant
Canada - British Columbia OELs: Respiratory or skin sensitiser		
Propylene oxide (CAS 75-56-9)		Capable of causing respiratory, dermal or conjunctival sensitization.
Canada - Manitoba OELs Hazard: Dermal sensitization		
Propylene oxide (CAS 75-56-9)		Dermal sensitization

Canada - Saskatchewan OELs Hazard Data: Sensitiser

Propylene oxide (CAS 75-56-9) Sensitizer.

Respiratory sensitization Not available.**Skin sensitization** This product is not expected to cause skin sensitization.**Mutagenicity** Non-hazardous by WHMIS/OSHA criteria.**Carcinogenicity** Non-hazardous by WHMIS/OSHA criteria.**ACGIH Carcinogens**

1,4-Dioxane (CAS 123-91-1) A3 Confirmed animal carcinogen with unknown relevance to humans.

Ethanol, 2,2"-iminobis- (CAS 111-42-2) A3 Confirmed animal carcinogen with unknown relevance to humans.

Hydrogen peroxide (CAS 7722-84-1) A3 Confirmed animal carcinogen with unknown relevance to humans.

Oxirane (CAS 75-21-8) A2 Suspected human carcinogen.

Propylene oxide (CAS 75-56-9) A3 Confirmed animal carcinogen with unknown relevance to humans.

Canada - Alberta OELs: Carcinogen category

Oxirane (CAS 75-21-8) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

1,4-DIOXANE (CAS 123-91-1) Confirmed animal carcinogen with unknown relevance to humans.

DIETHANOLAMINE, INHALABLE FRACTION AND VAPOR (CAS 111-42-2) Confirmed animal carcinogen with unknown relevance to humans.

ETHYLENE OXIDE (CAS 75-21-8) Suspected human carcinogen.

HYDROGEN PEROXIDE (CAS 7722-84-1) Confirmed animal carcinogen with unknown relevance to humans.

PROPYLENE OXIDE (CAS 75-56-9) Confirmed animal carcinogen with unknown relevance to humans.

Canada - Quebec OELs: Carcinogen category

1,4-Dioxane (CAS 123-91-1) Detected carcinogenic effect in animals.

Oxirane (CAS 75-21-8) Suspected carcinogenic effect in humans.

Propylene oxide (CAS 75-56-9) Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

1,4-Dioxane (CAS 123-91-1) Volume 11, Supplement 7, Volume 71 - 2B Possibly carcinogenic to humans.

Ethanol, 2,2"-iminobis- (CAS 111-42-2) Volume 77, Volume 101 - 2B Possibly carcinogenic to humans.

Hydrogen peroxide (CAS 7722-84-1) Volume 36, Supplement 7, Volume 71 - 3 Not classifiable as to carcinogenicity to humans.

Oxirane (CAS 75-21-8) Volume 97, Volume 100F 1 Carcinogenic to humans.

Propylene oxide (CAS 75-56-9) Volume 60 - 2B Possibly carcinogenic to humans.

Sulfur dioxide (CAS 7446-09-5) Volume 54 - 3 Not classifiable as to carcinogenicity to humans.

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

1,4-Dioxane (CAS 123-91-1)

Ethanol, 2,2"-iminobis- (CAS 111-42-2)

Oxirane (CAS 75-21-8)

Propylene oxide (CAS 75-56-9)

US NTP Report on Carcinogens: Anticipated carcinogen

1,4-Dioxane (CAS 123-91-1) Reasonably Anticipated to be a Human Carcinogen.

Propylene oxide (CAS 75-56-9) Reasonably Anticipated to be a Human Carcinogen.

US NTP Report on Carcinogens: Known carcinogen

Oxirane (CAS 75-21-8) Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Oxirane (CAS 75-21-8) Cancer

Reproductive toxicity Non-hazardous by WHMIS/OSHA criteria.**Teratogenicity** Non-hazardous by WHMIS/OSHA criteria.**Specific target organ toxicity - single exposure** Not classified.**Specific target organ toxicity - repeated exposure** Not classified.**Aspiration hazard** Not available.**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components	Species	Test Results
Alcohols, C9-11, ethoxylated (CAS 68439-46-3)		
Fish	Rainbow Trout	70.7 mg/L, 96 Hours
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
		2.9 - 8.5 mg/L, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)
		6 - 12 mg/L, 96 hours
Hydrogen peroxide (CAS 7722-84-1)		
Algae	IC50	Algae
		2.5 mg/L, 72 Hours
Crustacea	EC50	Daphnia
		7.7 mg/L, 48 Hours
Monoethanolamine (CAS 141-43-5)		
Algae	IC50	Algae
		15 mg/L, 72 Hours
Crustacea	EC50	Daphnia
		65 mg/L, 48 Hours
Aquatic		
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)
		114 - 196 mg/L, 96 hours
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Mobility in general	Not available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification	Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.
General	<p>Canada:</p> <p>Not dangerous goods</p> <p>Marine Pollutants Exemption. 1.45.1. : Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply to substances that are classified as marine pollutants in accordance with section 2.43 of Part 2, Classification, if they are in transport solely on land by road vehicle or railway vehicle. However, substances may be identified as marine pollutants on a shipping document and the required dangerous goods safety marks may be displayed when they are in transport by road or railway vehicle. (SOR/2008-34, s. 23)</p> <p>US: DOT:</p> <p>Not dangerous goods</p> <p>CFR 171.4: The requirements of this subchapter specific to marine pollutants does not apply to non-bulk packagings transported by motor vehicle, rail car or aircraft, except when all or part of the transportation is by vessel.</p>
U.S. Department of Transportation (DOT)	Not regulated as dangerous goods.
Transportation of Dangerous Goods (TDG - Canada)	Not regulated as dangerous goods.

IMDG (Marine Transport)**Basic shipping requirements:**

UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class	9
Packing group	III
Marine pollutant	Yes

IMDG

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Canada CEPA Schedule I: Listed substance

Oxirane (CAS 75-21-8)	Listed.
Propylene oxide (CAS 75-56-9)	Listed.
Sulfur dioxide (CAS 7446-09-5)	Listed.

Canada DSL Challenge Substances: Listed substance

1,4-Dioxane (CAS 123-91-1)	Listed.
Propylene oxide (CAS 75-56-9)	Listed.

Canada Priority Substances List (Second List): Listed substance

Oxirane (CAS 75-21-8)	Listed.
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Canada SNAc Reporting Requirements: Listed substance/Publication date

Propylene oxide (CAS 75-56-9)	12/21/2011 Listed.
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Export Control List (CEPA 1999, Schedule 3)

Oxirane (CAS 75-21-8)	Substance subject to notification or consent.
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Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Not applicable

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)

1,4-Dioxane (CAS 123-91-1)	Listed.
Ethanol, 2,2'-iminobis- (CAS 111-42-2)	Listed.
Oxirane (CAS 75-21-8)	Listed.
Propylene oxide (CAS 75-56-9)	Listed.

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity

Hydrogen peroxide (CAS 7722-84-1)	1000 LBS
Oxirane (CAS 75-21-8)	10 LBS
Propylene oxide (CAS 75-56-9)	100 LBS
Sulfur dioxide (CAS 7446-09-5)	500 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Oxirane (CAS 75-21-8)	Cancer
	Reproductive toxicity
	Mutagenicity
	Central nervous system
	Skin sensitization
	Skin irritation
	Eye irritation
	respiratory tract irritation
	Acute toxicity
	Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

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

1,4-Dioxane (CAS 123-91-1)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Oxirane (CAS 75-21-8)
Propylene oxide (CAS 75-56-9)

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

Oxirane (CAS 75-21-8)
Propylene oxide (CAS 75-56-9)
Sulfur dioxide (CAS 7446-09-5)

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130) Hazardous substance

US state regulations

US - California Hazardous Substances (Director's): Listed substance

1,4-Dioxane (CAS 123-91-1) Listed.
Ethanol, 2,2"-iminobis- (CAS 111-42-2) Listed.
Hydrogen peroxide (CAS 7722-84-1) Listed.
Monoethanolamine (CAS 141-43-5) Listed.
Oxirane (CAS 75-21-8) Listed.
Propylene oxide (CAS 75-56-9) Listed.
Sulfur dioxide (CAS 7446-09-5) Listed.

US - Illinois Chemical Safety Act: Listed substance

1,4-Dioxane (CAS 123-91-1)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Hydrogen peroxide (CAS 7722-84-1)
Oxirane (CAS 75-21-8)
Propylene oxide (CAS 75-56-9)
Sulfur dioxide (CAS 7446-09-5)

US - Louisiana Spill Reporting: Listed substance

1,4-Dioxane (CAS 123-91-1) Listed.
Ethanol, 2,2"-iminobis- (CAS 111-42-2) Listed.
Oxirane (CAS 75-21-8) Listed.
Propylene oxide (CAS 75-56-9) Listed.

US - Minnesota Haz Subs: Listed substance

1,4-Dioxane (CAS 123-91-1) Listed.
Ethanol, 2,2"-iminobis- (CAS 111-42-2) Listed.
Hydrogen peroxide (CAS 7722-84-1) Listed.
Monoethanolamine (CAS 141-43-5) Listed.
Oxirane (CAS 75-21-8) Listed.
Propylene oxide (CAS 75-56-9) Listed.
Sulfur dioxide (CAS 7446-09-5) Listed.

US - New Jersey RTK - Substances: Listed substance

1,4-Dioxane (CAS 123-91-1)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Hydrogen peroxide (CAS 7722-84-1)
Monoethanolamine (CAS 141-43-5)
Oxirane (CAS 75-21-8)
Propylene oxide (CAS 75-56-9)
Sulfur dioxide (CAS 7446-09-5)

US - North Carolina Toxic Air Pollutants: Listed substance

1,4-Dioxane (CAS 123-91-1)
Oxirane (CAS 75-21-8)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

1,4-Dioxane (CAS 123-91-1)
Oxirane (CAS 75-21-8)
Propylene oxide (CAS 75-56-9)

US - Texas Effects Screening Levels: Listed substance

1,4-Dioxane (CAS 123-91-1)	Listed.
Alcohols, C6-10, ethoxylated propoxylated (CAS 68987-81-5)	Listed.
Alcohols, C9-11, ethoxylated (CAS 68439-46-3)	Listed.
Ethanol, 2,2"-iminobis- (CAS 111-42-2)	Listed.
Hydrogen peroxide (CAS 7722-84-1)	Listed.
Monoethanolamine (CAS 141-43-5)	Listed.
Oxirane (CAS 75-21-8)	Listed.
Propylene oxide (CAS 75-56-9)	Listed.
Sulfur dioxide (CAS 7446-09-5)	Listed.

US - Washington Chemical of High Concern to Children: Listed substance

1,4-Dioxane (CAS 123-91-1)

US. Massachusetts RTK - Substance List

1,4-Dioxane (CAS 123-91-1)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Hydrogen peroxide (CAS 7722-84-1)
Monoethanolamine (CAS 141-43-5)
Oxirane (CAS 75-21-8)
Propylene oxide (CAS 75-56-9)
Sulfur dioxide (CAS 7446-09-5)

US. New Jersey Worker and Community Right-to-Know Act

1,4-Dioxane (CAS 123-91-1)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Hydrogen peroxide (CAS 7722-84-1)
Oxirane (CAS 75-21-8)
Propylene oxide (CAS 75-56-9)
Sulfur dioxide (CAS 7446-09-5)

US. Pennsylvania Worker and Community Right-to-Know Law

1,4-Dioxane (CAS 123-91-1)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Hydrogen peroxide (CAS 7722-84-1)
Monoethanolamine (CAS 141-43-5)
Oxirane (CAS 75-21-8)
Propylene oxide (CAS 75-56-9)
Sulfur dioxide (CAS 7446-09-5)

US. Rhode Island RTK

1,4-Dioxane (CAS 123-91-1)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Hydrogen peroxide (CAS 7722-84-1)
Monoethanolamine (CAS 141-43-5)
Oxirane (CAS 75-21-8)
Propylene oxide (CAS 75-56-9)
Sulfur dioxide (CAS 7446-09-5)

US. California Proposition 65



WARNING: This product can expose you to chemicals including propylene oxide, which is known to the State of California to cause cancer, and sulphur dioxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

1,4-Dioxane (CAS 123-91-1)	Listed: January 1, 1988
Ethanol, 2,2"-iminobis- (CAS 111-42-2)	Listed: June 22, 2012
Oxirane (CAS 75-21-8)	Listed: July 1, 1987
Propylene oxide (CAS 75-56-9)	Listed: October 1, 1988

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

Oxirane (CAS 75-21-8)	Listed: August 7, 2009
Sulfur dioxide (CAS 7446-09-5)	Listed: July 29, 2011

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

Oxirane (CAS 75-21-8)	Listed: February 27, 1987
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US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Oxirane (CAS 75-21-8)	Listed: August 7, 2009
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Inventory status

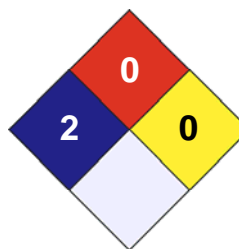
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

**Disclaimer**

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

Issue date

22-August-2018

Version #

03

Effective date

22-August-2018

Prepared by

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Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Redbook revision # 4, 12/4/16