SECTION 1 - IDENTIFICATION

Product identifier/Trade name:	RENEW HD Laundry Emulsifier & Pre-Spotter
Other means of identification:	1804730, 1804721
Recommended use:	HD Laundry Emulsifier & Pre-Spotter
Restriction on use:	For industrial, institutional and food plant use only.
Initial supplier identifier:	CHANDLER 225, Thorne Ave St John, NB, Canada E2L 4L9 Phone: 1(800) 363-9611
Emergency phone number:	(613) 996-6666 (CANUTEC)

SECTION 2 - HAZARDS IDENTIFICATION

2a WHMIS 2015 - GHS (Globally Harmonized System) classification

This product is classified as a skin irritant category 2 and an eye irritant category 2

2b Label éléments

Pictogram :

Precautionary statement
Wash hands thoroughly after handling. Wear rubber gloves and eye protection.
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 advice.
IF ON SKIN: Wash with plenty water. If skin irritation occurs get medical advice. Take off contaminated clothing and wash it before reuse.

Signal word: Warning.

Hazard statement: Causes serious eye irritation. Causes skin irritation.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	GHS CLASSIFICATION
Linear alkylbenzene sulfonic acid	68081-81-2	5-10	Acute toxicity oral, Category 4 Eye irritation Category 2
Hydrogen peroxide	70161-44-3	5-10	At this concentration, not classified
Dipropylene Glycol monomethyl ether	34590-94-8	5-10	Eye irritation Category 2
Sodium lauryl sulfate	151-21-3	5-10	Skin irritation Category 2. Eye irritation Category 2. Acute toxicity oral, Category 4

The actual concentrations are withheld as a trade secret.

SECTION 4 - FIRST AID MEASURES

4a Description of first aid measures

Eye contact:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

Skin contact:
Wash with plenty water. If skin irritation occurs get medical advice. Take off contaminated clothing and wash it before reuse.

Inhalation:
Remove person to fresh air.

Ingestion:
Rinse mouth with water. Never give anything by mouth if the person is unconscious. Call a doctor if the person feels unwell.

4b Most important symptoms and effects

Eye: May cause irritation, redness, tears, burning sensation.
Skin: May cause irritation. Contact with product may whiten skin for a few minutes.
Inhalation: Over-exposure by inhalation may cause respiratory irritation.
Ingestion: May cause slight irritation, headache, abdominal pain, diarrhoea, nausea, and vomiting.

4c Immediate medical attention and special treatment needed

No special treatment

SECTION 5 - FIRE FIGHTING MEASURES

5a Extinguishing media

Suitable extinguishing media:
Water, foam, dry chemicals, carbon dioxide. Product itself is not flammable but it can generate oxygen when decomposing.
Unsuitable extinguishing media:
None known.

Specific hazards for product

Hazardous combustion products:
Oxides of carbon, nitrogen, and other irritating gases.

Special protective equipment and precautions for firefighters
Special fire-fighting procedures/equipment:
During a fire, irritating smoke and fumes may be generated. A self-contained breathing apparatus is required for fire-fighting personnel to protect themselves from irritating products produced during the combustion. Move containers from fire area if it can be done without risk. A stream of water directed into the product generates a lot of foam.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6a Personal precautions, protective equipment, and emergency procedures
Personal protection:
Avoid contact with eyes. Use adequate aeration and ventilation. Floor will be slippery in case of a spill. Use appropriate personal protection equipment (see section 8)

6b Methods and materials for containment and cleaning:
Stop the leak. For large spills, pump the product into drums or clean up spills using absorbent material. Resume cleaning by rinsing with water. Caution: floors will be slippery.

6c Environmental precautions:
Product is biodegradable. Do not let large quantities go to the sewers.

SECTION 7 - HANDLING AND STORAGE

7a Precautions forSafe handling:
Avoid contact with eyes and skin. When used as directed, no special precautions.

7b Condition for safe storage:
Keep in a tightly
sealed opaque container away from sunlight, in a well-ventilated room. Do not store on surfaces that may come into contact with food
products. KEEP FROM FREEZING.

7c Special packaging materials: none.
No incompatibility with most materials found in most workplaces.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

8a Control parameters

	Ontario Time-weighted Average Limit (TWA)	Ontario Short-Term Exposure Limit (STEL)	Notations
Hydrogen peroxide	1 ppm	None established	

8b Engineering controls:
Not required under normal applications.

8c Individual protection measures
Respiratory Protection:
Not required under normal applications.
Skin protection and other protective equipment:
In case of possible contact, wear rubber gloves. Waterproof boots for large spills.
Eye / face protection:
Not required under normal applications. In case of possible contact, wear safety glasses

General hygiene considerations:
KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes. Never eat, drink, or smoke in work areas. Good hygiene is recommended after use of this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odour:	Blue liquid with floral scent
Odour threshold:	N/Av
pH :	4,5- 5,5
Melting point and freezing point:	Approximately 0 °C
Boiling point:	Approximately 100 °C
Flash point:	None to boil
Evaporation rate (n-BuAc =1):	Approximately 0.4 (water)
Lower flammable limit (% by volume):	N/Av
Upper flammable limit (% by volume):	N/Av.
Explosion data - Sensitivity to mechanical impact:	Not sensitive
Explosion data - Sensitivity to static discharge:	Not sensitive
Vapour pressure (mm Hg)	Approximately 20 (water)
Vapour density:	Approximately 0.6 (water)
Specific gravity or density (water = 1 at 4 °C):	1.0 g/cm^3@ 20 °C
Solubility in water:	Soluble
Partition coefficient – n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature	Not available
Viscosity:	<100-150 cps @ 25 °C

SECTION 10 - STABILITY AND REACTIVITY

10a Reactivity:
Not applicable when used as directed.

10b Chemical stability:
Stable at room temperature, in normal handling and storage conditions.

10c Possibility of hazardous reactions:
May react with strong alkalis and strong oxidizers.

10d Conditions to avoid:
Avoid contact with strong alkalis and strong reducing agents. Hydrogen Peroxide, a minor component of this product is a strong oxidizer. It is not flammable itself, but it can cause spontaneous combustion of flammable materials and continued support of the combustion because it liberates oxygen as it decomposes.

10e Incompatible materials
Strong alkalis and strong reducing agents. Flammable materials.

10f Hazardous decomposition product*s*:
heat, water vapours and oxygen.

SECTION 11 - TOXICOLOGICAL INFORMATION

Primary entry route(s): Eye and ingestion.
Eye: May cause irritation, redness, tears, burning sensation.
Skin: May cause irritation. Contact with product may whiten skin for a few minutes.
Inhalation: Over-exposure by inhalation may cause respiratory irritation.
Ingestion: May cause slight irritation, headache, abdominal pain, diarrhoea, nausea, and vomiting.

Carcinogenicity:	No ingredient listed by IARC as a possible carcinogen to humans.
Teratogenicity, mutagenicity, other reproductive effects:	Mutagenic tests have been negative for ingredients
Skin sensitization:	Ingredients not sensitizing as per OECD 406
Respiratory tract sensitization:	Not available

Synergistic materials: Not available
Other important hazards: Not available

Toxicological data: The calculated LD_{50} for this product is greater than 10,000 mg/Kg, oral, rat; our products are not tested on animals.

Ingredient	LD_{50} (route, species)	LC_{50} # hours (species)
Linear alkylbenzene sulfonic acid	1,080 mg/kg (oral, rat) >1,200 mg/kg (dermal, guinea pig)	N/Av
Hydrogen peroxide	694 mg/kg (oral, rat) 2,000 mg/kg (dermal, rabbit)	N/Av
Dipropylene Glycol monomethyl ether	>2,000 mg/kg (oral, rat)	Inhalation, rabbit LC50 >6.41 mg/L
Sodium lauryl sulfate	1,200 mg/kg (oral, rat) >1,200 mg/kg (dermal, guinea pig)	N/Av

For more details, refer to Section 3.

SECTION 12 - ECOLOGICAL INFORMATION

12a Ecotoxicity :

TOXICITY (Fish)	Results	Exposure time	Method
Linear alkylbenzene sulfonic acid	Trout: 3.6 mg/L	96H	Not available
Hydrogen peroxide	Fish: 16.4 mg/L	96H	Not available
Dipropylene Glycol monomethyl ether	FISH 280 mg/L	96H	Not available
Sodium lauryl sulfate	Macrones Vittatus LC50: 1.39 mg/L	96h	ND

TOXICITY (Daphnia)	Results	Exposure time	Method
Linear alkylbenzene sulfonic acid	EC50: 1.62 mg/L	48H	Not available
Hydrogen peroxide	EC50: 7.7 mg/L	48H	Not available
Dipropylene Glycol monomethyl ether	EC50 370 mg/L	48H	Not available
Sodium lauryl sulfate	EC50: 1.35 mg/L	24H	EPA-600/4-85/013

TOXICITY (Algea)	Results	Exposure time	Method
Linear alkylbenzene sulfonic acid	Selenastrum capricornutum EC50 = 29 mg/L	72H	Not available
Hydrogen peroxide	Selenastrum capricornutum EC50 = 4,05-21,26 mg/l	96H	Not available
Dipropylene Glycol monomethyl ether	EC50 100	72H	Not available
Sodium lauryl sulfate	Selenastrum capricornutum EC50 3.75 mg/l	92H	Not available

12b Persistence and degradability: Product is expected to be readily biodegradable as per OECD 301.

12c Bioaccumulation potential: Not bio accumulating
.

12d Mobility in soil: There is no test data on this product.

12e Other adverse effect No applicable information found

SECTION 13 - DISPOSAL CONSIDERATIONS

Eliminate according to federal, provincial and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Transportation of Dangerous Goods (TDG) in Canada:
Not regulated

UN number	Not applicable
Proper shipping name:	Not applicable
Class:	Not applicable
Identification number:	Not applicable
Packing group:	Not applicable
Special case:	Not applicable

SECTION 15 - REGULATORY INFORMATION

In Canada
WHMIS information:
This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (H
and this safety data sheet (SDS) contains all the information required by the HPR.
WHMIS 2015
Classification: See section 2a
CEPA information: Ingredients are listed on the DSL inventory.

SECTION 16 - OTHER INFORMATION

Date of latest revision 2022-04-04
References:
1. Manufacturer'/suppliers' MSDS.
2. Occupational Exposure Limits for Ontario Workplaces required under Regulation 833.
3. International Agency for Research on Cancer Monographs
4. The European Chemicals Agency (ECHA) website.

Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
CEPA	Canadian Environmental Protection Act
cps	Centipoises
DSL	Domestic Substance List
HMIS	Hazardous Material Information System
IARC	International Agency for Research on Cancer
LC	Lethal concentration
LD	Lethal Dosage
N/Av	Not available
N/Ap	Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
WHMIS	Workplace Hazardous Materials Information System

End of the SDS