SECTION 1 - IDENTIFICATION

Product identifier/Trade name: SAFEBLEND DISH DETERGENT, LEMON

Other means of identification: VCLE

Recommended use and restriction on use: Dish detergent

Restriction on use: For industrial, institutional and food plants use only.

Initial supplier identifier:
Chemotec (PM) Inc.
8820 Place Ray-Lawson
Anjou, Quebec, Canada H1J 1Z2
Phone: (514) 729-6321; 1-800-729-6321

Emergency phone number: (613) 996-6666 (CANUTEC)

SECTION 2 - HAZARDS IDENTIFICATION

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

This product is not classified under WHMIS 2015 - GHS

2b Label elements
None as per WHMIS 2015

Precautionary statement

Not regulated under WHMIS 2015. See applicable sections.

Signal word:

None as per WHMIS 2015

Hazard statement

None as per WHMIS 2015

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	GHS CLASSIFICATION
Sodium linear alkylbenzene sulfonate	68081-81-2	3-7	Acute toxicity oral and skin contact, category 4 Eye irritation, category 2
Amides, Coco, N-(hydroxyethyl)	68140-00-1	0.1-2	Skin irritation, category 2 Eye damage, category 1
Alpha-sulfo-omega-hydroxypoly(oxy -1,2-ethanidiyl)C10-16 Alkyl Ethers, Sodium Salts	68585-34-2	1-5	Acute toxicity oral, category 4 Skin irritation, category 2 Eye irritation, category 2

SECTION 4 - FIRST AID MEASURES

4a Description of first aid measures

Eye contact:
Flush or rinse eyes with water after contact. If eye irritation persists, get medical advice.
Skin contact:
Rinse with water. If irritation occurs, get medical advice.
Inhalation:
No effect expected.
Ingestion:
Rinse mouth with water. Never give anything by mouth if the person is unconscious.

4b Most important symptoms and effects

Eye: May cause irritation, redness, tears, burning sensation.
Skin: No effect expected.
Inhalation: No effect expected.
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 (if possible avoid powerful sprays), foam, dry chemicals, carbon dioxide. Product itself is not flammable.
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. Floor will be slippery in case of a spill.

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 for safe handling:
Avoid contact with eyes. When used as directed, no special precautions.

7b Condition for safe storage:
Store in a sealed container in a well-ventilated place. Do not store 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
	None established	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:
Waterproof boots for large spills. Rubber gloves.

Eye / face protection:
Not required under normal applications. In case of possible eye contact, safety glasses are advised.

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:	Yellow liquid, lemon scent.
Odour threshold:	N/Av
pH :	6.5-7.5
Melting point and freezing point:	Approximately 0 ^{o}C
Boiling point:	Approximately 100 ^{o}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 ^{o}C):	1.03 g/cm^{3}@ 20 ^{o}C
Solubility in water:	Miscible
Partition coefficient – n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature	Not available
Viscosity:	650-900 cps @ 25 ^{o}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 oxidizers.

10d Conditions to avoid:
Avoid contact with strong oxidizers.

10e Incompatible materials
Strong oxidizers

10f Hazardous decomposition products:
With strong oxidizers: heat, water vapour. Oxides of carbon, nitrogen and other irritating gases.

SECTION 11 - TOXICOLOGICAL INFORMATION

Primary entry route(s): Eye and ingestion.

Eye: May cause irritation, redness, tears, burning sensation.

Skin: No effect expected. Continuous and prolonged contact with the undiluted product may lead to skin irritation.

Inhalation: No effect expected.

Ingestion: May cause slight irritation, headache, abdominal pain, diarrhoea, nausea and vomiting.

Carcinogenicity:	No ingredient listed by IARC as a possible carcinogen.
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)
Amides, Coco, N-(hydroxyethyl)	7,400 mg/kg (oral, rat) >2,000 mg/kg (dermal, rabbit)	N/Av
Alpha-sulfo-omega-hydroxypoly(oxy -1,2-ethanidiyl)C10-16 Alkyl Ethers, Sodium Salts	1,600 mg/kg (dermal, rabbit) >2,000 mg/kg (oral, rat)	N/Av
Sodium linear alkylbenzene sulfonate	1,080 mg/kg (dermal, rabbit) >2,000 mg/kg (oral, rat)	N/Av

For more details, refer to Section 3.

SECTION 12 - ECOLOGICAL INFORMATION

12a Ecotoxicity :

TOXICITY (Fish)	Results	Exposure time	Method
Amides, Coco, N-(hydroxyethyl)	114-196 mg/kg	96H	Not available
Alpha-sulfo-omega-hydroxypoly(oxy -1,2-ethanidiyl)C10-16 Alkyl Ethers, Sodium Salts	28 mg/kg	96H	Not available
Sodium linear alkylbenzene sulfonate	3.0	96H	Not available

TOXICITY (Daphnia)	Results	Exposure time	Method
Amides, Coco, N-(hydroxyethyl)	24.8 mg/L	48H	Not available
Alpha-sulfo-omega-hydroxypoly(oxy -1,2-ethanidiyl)C10-16 Alkyl Ethers, Sodium Salts	3.12 mg/L	48H	Not available
Sodium linear alkylbenzene sulfonate	1.62 mg/L	48H	Not available

TOXICITY (Algea)	Results	Exposure time	Method
Amides, Coco, N-(hydroxyethyl)	Scenedesmus subspicatus 16,6 mg/L	96H	Not available
Alpha-sulfo-omega-hydroxypoly(oxy -1,2-ethanidiyl)C10-16 Alkyl Ethers, Sodium Salts	Selenastrum capricornutum), 30 mg/L	21 days	Not available
Sodium linear alkylbenzene sulfonate	Selenastrum capricornutum), 29,0 mg/L	48H	Not available

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

12c Bioaccumulation potential: Not available

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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 (HPR) and this safety data sheet (SDS) contains all the information required by the HPR.

WHMIS Classification: See section 2a

CEPA information: Ingredients are listed on the DSL inventory.

SECTION 16 - OTHER INFORMATION

Date of latest revision 2016-05-03

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 MSDS