

SECTION 1 - IDENTIFICATION

Product identifier/Trade name: BIO-LUX ANTIMICROBIAL ORANGEL SOAP Orange scent

Other means of identification: BIOR

Recommended use: Hand soap

Restriction on use: For industrial, institutional, household and food plant use

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 registered as a cosmetic under the Cosmetics Regulation and not under WHMIS

2b Label elements

Not applicable

Precautionary statement

Not applicable

Signal word:

Not applicable

Hazard statement

Not applicable

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	GHS CLASSIFICATION
Sodium coco-sulfate	151-21-3	1-5	Not applicable
Sodium laureth sulfate	68585-34-2	1-5	Not applicable
Amides, rape-oil, N-	85536-23-8	1-5	Not applicable

(hydroxyethyl), ethoxylated

Glycerine	56-81-5	0.1-1	Not applicable
Aloe Vera extract	8001-97-6	0.1-1	Not applicable
Triclosan	3380-34-5	0.1	Not applicable

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:

Not applicable

Inhalation:

No effect expected.

Ingestion:

Rinse mouth. Call a doctor if you feel unwell. 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: Not applicable

Inhalation: No effect expected.

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

4c Immediate medical attention and special treatment needed

People who have skin sensitization may be susceptible to irritating effects when using the product.

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 and 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.

SECTION 7 - HANDLING AND STORAGE

7a Precautions for safe handling:

Avoid contact with eyes and skin. When used as directed, no special precautions.

7b Condition for safe storage:

Store in a sealed container. 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
The product does not contain any relevant quantities of materials with critical values that have to be monitored in the workplace.			

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.

Eye / face protection:

Not required under normal applications.

General hygiene considerations:

KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes. Never eat, drink, or smoke in work areas..

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odour:

Clear orange liquid, orange scent

Odour threshold:

N/Av

pH :

6.5-7.5

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):	Approximately 1.04 g/cm ³ @ 20 °C
Solubility in water:	Miscible
Partition coefficient – n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature	Not available
Viscosity:	2500-3000 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 oxidizing agents.

10d Conditions to avoid:

Avoid contact with strong oxidizers.

10e Incompatible materials

Strong oxidizers

10f Hazardous decomposition products:

With strong oxidizers: carbon oxides and other irritant gases.

SECTION 11 - TOXICOLOGICAL INFORMATION

Primary entry route(s): Eye and ingestion.

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

Skin: Not applicable

Inhalation: No effect expected.

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

Carcinogenicity:

No ingredients classified as carcinogenic.

Teratogenicity, mutagenicity, other reproductive effects:

No ingredients classified as such.

Skin sensitization:

People who have skin sensitization may be susceptible to irritating effects when using the product.

Respiratory tract sensitization:

Not available

Synergistic materials:

Not available

Other important hazards:

Not available

Toxicological data: The calculated LD₅₀ for this product is greater than 10,000 mg/Kg, oral, rat; our products are not tested on animals.

For more details, refer to Section 3.

SECTION 12 - ECOLOGICAL INFORMATION

12a Ecotoxicity :

TOXICITY (Fish)	Results	Exposure time	Method
Sodium lauryl sulfate	Trout 3.6 mg/L	96H	N/AV.
Sodium laureth sulfate	Trout 28 mg/L	96H	N/AV.
Amides, rape-oil, N-(hydroxyethyl), ethoxylated	Rainbow trout 2.9 mg/L	96H	N/AV.
Glycerine	Rainbow trout: LC100 = 51,000-57000	96H	N/AV.

TOXICITY (Daphnia)	Results	Exposure time	Method
Sodium lauryl sulfate	EC50 1.35 mg/l	24H	N/AV.
Sodium laureth sulfate	1.17 mg/L	96H	N/AV.
Amides, rape-oil, N-(hydroxyethyl), ethoxylated	3.8 mg/L	24H	N/AV.
Glycerine	EC50 = 153,000	48H	N/AV.

TOXICITY (Algae)	Results	Exposure time	Method
Sodium lauryl sulfate	<i>Selenastrum capricornutum</i> EC50 3.75 mg/l	192H	N/AV.
Sodium laureth sulfate	<i>Selenastrum capricornutum</i> 32 mg/L	72H	N/AV.
Amides, rape-oil, N-(hydroxyethyl), ethoxylated	Not harmful to algae		N/AV.
Glycerine	78000 mg/l.	72H	N/AV.

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

12c Bioaccumulation potential: Not available

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

SECTION 15 - REGULATORY INFORMATION
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In Canada

WHMIS information:

This product is registered as a cosmetic under the Cosmetics Regulation and not under WHMIS. The information herewith is only provided to our customers for their training and safety programs.

WHMIS 2015 Classification: See section 2a

CEPA information: Ingredients are listed on the DSL inventory.

SECTION 16 - OTHER INFORMATION

Date of latest revision: 2017-11-02

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