

SECTION 1 - IDENTIFICATION

Product identifier/Trade name: IMPACT LEMON DISH DETERGENT

Other means of identification: VCYL

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: 1-800-729-6321
(Available from 8:00am to 4:30pm Monday to Friday)

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 |
|---|------------|------------|--|
| Cocoamidopropyl betaine | 61789-40-0 | 1-5 | Skin irritation, category 2 Eye irritation, category 2 |
| 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 |

The actual concentrations are withheld as a trade secret.

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. The 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 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

Physical state

Viscous yellow liquid.

Colour

Yellow

Odour

Lemon scent

Melting point and freezing point

Approximately 0 °C

| | |
|---|--------------------------------|
| Boiling point: | Approximately 100 °C |
| Flammability | N/A |
| Lower and upper flammability limit | N/A |
| Flash point | None to boil |
| Auto-ignition temperature | N/A |
| Decomposition temperature | N/A |
| pH | 6.5-7.5 |
| Viscosity: | 650-900 cps @ 25 °C |
| Solubility in water: | Miscible |
| Partition coefficient – n-octanol/water | N/A |
| Vapour pressure (mm Hg) | Approximately 20 (water) |
| Specific gravity or density (water = 1 at 4 °C): | 1.02 g/cm ³ @ 20 °C |
| Relative vapour density | Approximately 0.6 (water) |
| Particle characteris | N/A |

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 vapor. 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 LD₅₀ 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) |
|---|---|------------------------------------|
| Cocoamidopropylbetaine | 2,335 mg/kg (oral, rat) 620-2,000 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 |

For more details, refer to Section 3.

SECTION 12 - ECOLOGICAL INFORMATION

12a Ecotoxicity :

| TOXICITY (Fish) | Results | Exposure time | Method |
|---|------------|---------------|---------------|
| Alpha-sulfo-omega-hydroxypoly(oxy -1,2-ethanidiyl)C10-16 Alkyl Ethers, Sodium Salts | 28 mg/kg | 96H | Not available |
| Cocoamidopropylbetaine | 1.11 mg/kg | 96H | Not available |

| TOXICITY (Daphnia) | Results | Exposure time | Method |
|---|--------------|---------------|---------------|
| Alpha-sulfo-omega-hydroxypoly(oxy -1,2-ethanidiyl)C10-16 Alkyl Ethers, Sodium Salts | 3.12 mg/L | 48H | Not available |
| Cocoamidopropylbetaine | 1.9-6.5 mg/L | 48H | Not available |

| TOXICITY (Algae) | Results | Exposure time | Method |
|---|--|---------------|---------------|
| Alpha-sulfo-omega-hydroxypoly(oxy -1,2-ethanidiyl)C10-16 Alkyl Ethers, Sodium Salts | Selenastrum capricornutum), 30 mg/L | 21 days | Not available |
| Cocoamidopropylbetaine | Algae 570-9,860 mg/L | 72H | Not available |

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

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) contain 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 2023-07-13

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.) |

Safety Data Sheet: IMPACT LEMON DISH DETERGENT

OSHA
PEL
TLV
WHMIS

Occupational Safety and Health Administration (U.S.A.)
Permissible Exposure Limit
Threshold Limit Value
Workplace Hazardous Materials Information System

End of the MSDS