

SECTION 1: Identification

1.1. Product identifier

Product name : MUSCLE RINSE
Product code : 1100375

1.2. Recommended use and restrictions on use

Recommended use : Dish machine rinse aid
Restrictions on use : Food Plant, Industrial and Institutional use only

1.3. Supplier

Project Clean Inc.
12 James St N, Suite 202
Hamilton, Ontario L8R 2J9
T 1 800 663 9925
regulatory@projectclean.com - www.projectclean.ca

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Canada	CHEMTREC Chemical Emergency	www.chemtrec.com	1 800 424 9300	24hr/day 7days/week within USA and Canada
Canada	CANUTEC Transportation Emergency	www.canutec.com	1 888 226 8832 *666 on a cell phone	24hr/day 7days/week within USA and Canada

SECTION 2: Hazard identification


2.1. Classification of the substance or mixture

Classification (GHS CA)

Skin corrosion/irritation, Category 2 H315 Causes skin irritation.
Serious eye damage/eye irritation, Category 2 H319 Causes serious eye irritation.
Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA) : 

Signal word (GHS CA) : Warning

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Hazard statements (GHS CA)	: H315 - Causes skin irritation. H319 - Causes serious eye irritation.
Precautionary statements (GHS CA)	: P264 - Wash hands and affected areas thoroughly after handling. P280 - Wear protective gloves and eye protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see supplemental first aid instruction on the product SDS). P332+P313 - If skin irritation occurs: Get medical advice or attention. P337+P313 - If eye irritation persists: Get medical advice or attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	% w/w
Ethoxylated propoxylated alcohols (C=12-14)	Ethoxylated propoxylated alcohols (C=12-14)	CAS-No.: 68439-51-0	5 - 10
Sodium xylenesulphonate	Benzene sulfonic acid, dimethyl-, sodium salt	CAS-No.: 1300-72-7	3 - 7
Glycollic acid	Hydroxy acetic acid	CAS-No.: 79-14-1	1 - 5

**The exact concentrations have been withheld as a trade secret. Les concentrations exactes ont été retenues en tant que secret commercial.*

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice or attention.

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First-aid measures after 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 or attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Eye irritation.

Chronic symptoms : No effects known.

Expected Symptoms/Effects, Acute and Delayed : Eye irritation. Repeated or prolonged contact may cause skin irritation.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

General measures : Evacuate area. Avoid contact with skin and eyes. Do not handle until all safety precautions have been read and understood. Clean up any spills as soon as possible, using an absorbent material to collect it.

6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or face shield with safety glasses. Protective clothing (EN 14605 or EN 13034). Standard EN 374 - Protective gloves against chemicals.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls or personal protection".

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Emergency procedures : Ventilate area. Evacuate unnecessary personnel. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.
Incompatible products : Strong bases. Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Materials for protective clothing:

Nitrile rubber/PVC

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Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Not required for normal conditions of use
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Blue, Clear liquid.
Colour	: Blue
Odour	: mild Alcohol odour
Odour threshold	: No data available
pH	: 2 - 4
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: ≥ 100 °C No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Upper and lower flammability or explosive limit	: Not flammable, Not applicable
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: 1.01 - 1.05
Solubility	: Soluble in water.

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Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Thin like water
Explosive properties	: Not explosive.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: Strong bases. Oxidizing agent.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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LD50 oral rat	25319 mg/kg
LC50 Inhalation - Rat	52.5 mg/l/4h
Sodium xylenesulphonate (1300-72-7)	
LD50 oral rat	> 7000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 6.41 mg/l (Equivalent or similar to OECD 403, 232 minutes, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))

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Ethoxylated propoxylated alcohols (C=12-14) (68439-51-0)	
LD50 oral rat	3530 mg/kg Source: e-Chemportal
ATE CA (oral)	3530 mg/kg bodyweight
Glycollic acid (79-14-1)	
LD50 oral rat	2040 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-1 (Acute Oral Toxicity), 95% CL: 1443 - 2469
ATE CA (oral)	2040 mg/kg bodyweight
ATE CA (Gases)	4500 ppmv/4h
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

Glycollic acid (79-14-1)	
LOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity), Guideline: other:, Guideline: other:
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity), Guideline: other:, Guideline: other:

Aspiration hazard	: Not classified
Likely routes of exposure	: Skin and eyes contact.
Expected Symptoms/Effects, Acute and Delayed	: Eye irritation. Repeated or prolonged contact may cause skin irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
Chronic symptoms	: No effects known.

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

MUSCLE RINSE	
Partition coefficient n-octanol/water (Log Pow)	No data available
Sodium xylenesulphonate (1300-72-7)	
LC50 - Fish [1]	> 1000 mg/l (EPA OTS 797.1400, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value)
EC50 - Crustacea [1]	> 1000 mg/l (EPA OTS 797.1300, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 96h - Algae [1]	≥ 230 mg/l (EPA OTS 797.1050, Selenastrum capricornutum, Static system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-3.12 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.42 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ethoxylated propoxylated alcohols (C=12-14) (68439-51-0)	
LC50 - Fish [1]	0.7 – 5.7 mg/l Source: HSNO
EC50 - Crustacea [1]	0.29 – 270 mg/l Source: HSNO
Partition coefficient n-octanol/water (Log Pow)	5.96 Source: EPISUITE
Glycollic acid (79-14-1)	
LC50 - Fish [1]	164 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	141 mg/l Test organisms (species): Daphnia magna

12.2. Persistence and degradability

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Persistence and degradability Contains readily biodegradable component(s).

Sodium xylenesulphonate (1300-72-7)	
Persistence and degradability	Readily biodegradable in water.

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12.3. Bioaccumulative potential

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Bioaccumulative potential No bioaccumulation data available.

Partition coefficient n-octanol/water (Log Pow) No data available

Sodium xylenesulphonate (1300-72-7)	
Bioaccumulative potential	Not bioaccumulative.
Partition coefficient n-octanol/water (Log Pow)	-3.12 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.42 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ethoxylated propoxylated alcohols (C=12-14) (68439-51-0)	
Partition coefficient n-octanol/water (Log Pow)	5.96 Source: EPISUITE

12.4. Mobility in soil

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Ecology - soil No (test) data on mobility of the substance available.

Partition coefficient n-octanol/water (Log Pow) No data available

Sodium xylenesulphonate (1300-72-7)	
Surface tension	71 mN/m (20 °C, 90 %, EU Method A.5: Surface tension)
Ecology - soil	Highly mobile in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.42 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	-3.12 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)
Ethoxylated propoxylated alcohols (C=12-14) (68439-51-0)	
Mobility in soil	13530 Source: EPISUITE
Partition coefficient n-octanol/water (Log Pow)	5.96 Source: EPISUITE

12.5. Other adverse effects

Ozone : Not classified

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SECTION 13: Disposal considerations

13.1. Disposal methods

- Regional waste regulation : All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory.
- Waste treatment methods : Dispose of contents and or container in accordance with licensed collector's sorting instructions.
- Product/Packaging disposal recommendations : Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (TDG) : Not applicable

14.3. Transport hazard class(es)

TDG

Transport hazard class(es) (TDG) : Not applicable

14.4. Packing group

Packing group (TDG) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

TDG

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

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Listed on the Canadian DSL (Domestic Substances List)

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Sodium xylenesulphonate (1300-72-7)

Listed on the Canadian DSL (Domestic Substances List)

Ethoxylated propoxylated alcohols (C=12-14) (68439-51-0)

Listed on the Canadian DSL (Domestic Substances List)

Glycollic acid (79-14-1)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Sodium xylenesulphonate (1300-72-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Ethoxylated propoxylated alcohols (C=12-14) (68439-51-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Glycollic acid (79-14-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Issue date : 12/18/2023

Full text of H-statements:

H315	Causes skin irritation.
H319	Causes serious eye irritation.

It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. Project Clean Inc. will accept no liability for damages or loss incurred from the improper handling and use of this product.

The information provided in the Safety Data Sheet has been obtained from current sources and is believed to be reliable.