# Safety Data Sheet



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|---|---|---|---|
| **Document group:** | 28-9276-8 | **Version number:** | 3.00 |
| **Issue Date:** | 17/08/2020 | **Supersedes date:** | 12/05/2015 |

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

## SECTION 1: Identification

### 1.1. Product identifier
3M™ Glass Cleaner Concentrate (Product No. 1, 3M™ Chemical Management Systems)

**Product Identification Numbers**
70-0716-8343-0

### 1.2. Recommended use and restrictions on use

**Recommended use**
Non-streaking cleaner for windows, glass and mirrors. Fragrance Added, This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated volume, minimized/recycled packaging, and protective limits on: VOCs and human & environmental toxicity. GreenSeal.org., Hard Surface Cleaner

For Industrial or Professional use only

### 1.3. Supplier's details
**Address:** 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
**Telephone:** (09) 477 4040
**E Mail:** innovation@nz.mmm.com
**Website:** 3m.co.nz

### 1.4. Emergency telephone number
24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

## SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.
Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

### 2.1. Classification of the substance or mixture

| GHS | HSNO |
|---|---|
| Flammable Liquid: Category 3 | 3.1C Flammable Liquid |
| Serious Eye Damage/Irritation: Category 2 | 6.4A Irritating to the eye |

| | |
|---|---|
| Skin Corrosion/Irritation: Category 3 | 6.3B Irritating to the skin |
| Acute Aquatic Toxicity: Category 3 | 9.1D Aquatic toxicity (acute) |

**2.2. Label elements**
**SIGNAL WORD**
WARNING!

**Symbols:**
Flame | Exclamation mark |

**Pictograms**

**HAZARD STATEMENTS:**

| | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H316 | Causes mild skin irritation. |
| H402 | Harmful to aquatic life. |

**PRECAUTIONARY STATEMENTS**

**Prevention:**

| | |
|---|---|
| P210A | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P240B | Ground and bond container and receiving equipment. |
| P242A | Use non-sparking tools. |
| P233 | Keep container tightly closed. |
| P243A | Take action to prevent static discharges. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P280B | Wear protective gloves and eye/face protection. |
| P264B | Wash exposed skin thoroughly after handling. |

**Response:**

| | |
|---|---|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
| P370 + P378G | In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish. |
| P303 + P361 + P353A | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |

**Storage:**

| | |
|---|---|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |

**Disposal:**

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with applicable local/regional/national/international regulations. |

## SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | % by Weight |
|---|---|---|
| Water | 7732-18-5 | 60 - 90 |
| Decyl Glycoside | Trade Secret | 5 - 10 |
| Isopropyl alcohol | 67-63-0 | 3 - 7 |
| Lauryl Glycoside | Trade Secret | 1 - 5 |
| Potassium Carbonate | 584-08-7 | 0.5 - 1.5 |
| Sodium Lauryl Sulfate | 151-21-3 | 1 - 1.5 |

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**Inhalation**
Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye contact**
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.
A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

**If swallowed**
Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**
See Section 11.1 Information on toxicological effects

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable extinguishing media**
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**5.2. Special hazards arising from the substance or mixture**
Closed containers exposed to heat from fire may build pressure and explode.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Carbon monoxide. | During combustion. |
| Carbon dioxide. | During combustion. |

**5.3. Special protective actions for fire-fighters**
Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**5.4. Hazchem code:** -3Y

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**
Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

**7.1. Precautions for safe handling**
This product is not intended to be used without prior dilution as specified on the product label. Avoid eye contact. For industrial/occupational use only. Not for consumer sale or use. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

**7.2. Conditions for safe storage including any incompatibilities**
Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from acids. Store away from oxidising agents.

**7.3. Certified handler**
Not required

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**Occupational exposure limits**
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available

for the component.

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|---|---|---|---|---|
| Isopropyl alcohol | 67-63-0 | ACGIH | TWA:200 ppm;STEL:400 ppm | A4: Not class. as human carcinogin |
| Isopropyl alcohol | 67-63-0 | New Zealand WES | TWA(8 hours):983 mg/m3(400 ppm);STEL(15 minutes):1230 mg/m3(500 ppm) | |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
New Zealand WES : New Zealand Workplace Exposure Standards.
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
ppm: parts per million
mg/m³: milligrams per cubic metre
CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**
NOTE: When used with a chemical dispensing system as directed, special ventilation is not required. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

NOTE: When used with a chemical dispensing system as directed, eye contact with the concentrate is not expected to occur. If the product is not used with a chemical dispensing system or if there is an accidental release, wear protective eye/face protection.
If product is not used with a chemical dispensing system or if there is an accidental release:
Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect vented goggles.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

**Skin/hand protection**
NOTE: When used with a chemical dispensing system as directed, skin contact with the concentrate is not expected to occur.
If product is not used with a chemical dispensing system or if there is an accidental release:
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.
Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended: Polymer laminate

**Respiratory protection**

NOTE: When used with a chemical dispensing system as directed, respiratory protection is not required.
If product is not used with a chemical dispensing system or if there is an accidental release:
An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select

from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid. |
| **Specific Physical Form:** | Liquid. |
| **Colour** | Blue, Violet |
| **Odour** | Apple |
| **Odour threshold** | *No data available.* |
| **pH** | 11.4 |
| **Melting point/Freezing point** | *Not applicable.* |
| **Boiling point/Initial boiling point/Boiling range** | 148.9 ºC |
| **Flash point** | 48.9 ºC [*Test Method:*Closed Cup] [*Details:*Does not sustain combustion.] |
| **Evaporation rate** | *Not applicable.* |
| **Flammability (solid, gas)** | Not applicable. |
| **Flammable Limits(LEL)** | *No data available.* |
| **Flammable Limits(UEL)** | *No data available.* |
| **Vapour pressure** | *No data available.* |
| **Vapor Density and/or Relative Vapor Density** | *No data available.* |
| **Density** | *No data available.* |
| **Relative density** | 1.019 [*Ref Std:*WATER=1] |
| **Water solubility** | Complete |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *Not applicable.* |
| **Autoignition temperature** | *Not applicable.* |
| **Decomposition temperature** | *No data available.* |
| **Viscosity/Kinematic Viscosity** | < 50 mPa-s |
| **Volatile organic compounds (VOC)** | 3 - 7 % [*Test Method:*calculated per CARB title 2] |
| **Percent volatile** | 70 - 100 % |
| **VOC less H2O & exempt solvents** | 100 - 300 g/l [*Test Method:*calculated per CARB title 2] |

**Nanoparticles**
This material does not contain nanoparticles.

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

**10.2 Chemical stability**
Stable.

**10.3 Possibility of hazardous reactions**

Hazardous polymerisation will not occur.

**10.4 Conditions to avoid**
None known.

**10.5 Incompatible materials**
Strong oxidising agents.

**10.6 Hazardous decomposition products**

| Substance | Condition |
|---|---|
| None known. | |

Refer to Section 5.2 for hazardous decomposition products during combustion.

# SECTION 11: Toxicological information

**The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.**

**11.1 Information on Toxicological effects**

**Signs and Symptoms of Exposure**

**Based on test data and/or information on the components, this material may produce the following health effects:**

**Inhalation**
Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin contact**
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

**Eye contact**
Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Ingestion**
Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

**Toxicological Data**
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Decyl Glycoside | Dermal | Rabbit | LD50 > 11,200 mg/kg |
| Decyl Glycoside | Ingestion | Rat | LD50 3,730 mg/kg |
| Isopropyl alcohol | Dermal | Rabbit | LD50 12,870 mg/kg |
| Isopropyl alcohol | Inhalation-Vapor (4 | Rat | LC50 72.6 mg/l |

| | | | |
|---|---|---|---|
| | hours) | | |
| Isopropyl alcohol | Ingestion | Rat | LD50 4,710 mg/kg |
| Lauryl Glycoside | Dermal | Rabbit | LD50 > 1,000 mg/kg |
| Lauryl Glycoside | Ingestion | Rat | LD50 > 2,500 mg/kg |
| Sodium Lauryl Sulfate | Dermal | Rabbit | LD50 580 mg/kg |
| Sodium Lauryl Sulfate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.975 mg/l |
| Sodium Lauryl Sulfate | Ingestion | Rat | LD50 1,650 mg/kg |
| Potassium Carbonate | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Potassium Carbonate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.58 mg/l |
| Potassium Carbonate | Ingestion | Rat | LD50 1,870 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Isopropyl alcohol | Multiple animal species | No significant irritation |
| Lauryl Glycoside | Rabbit | Irritant |
| Sodium Lauryl Sulfate | Rabbit | Irritant |
| Potassium Carbonate | Rabbit | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Overall product | In vitro data | Severe irritant |
| Isopropyl alcohol | Rabbit | Severe irritant |
| Lauryl Glycoside | Rabbit | Corrosive |
| Sodium Lauryl Sulfate | Rabbit | Corrosive |
| Potassium Carbonate | Rabbit | Corrosive |

**Sensitisation:**

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| Isopropyl alcohol | Guinea pig | Not classified |
| Lauryl Glycoside | Guinea pig | Not classified |

**Respiratory Sensitisation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Isopropyl alcohol | In Vitro | Not mutagenic |
| Isopropyl alcohol | In vivo | Not mutagenic |
| Lauryl Glycoside | In Vitro | Not mutagenic |
| Lauryl Glycoside | In vivo | Not mutagenic |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Isopropyl alcohol | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Isopropyl alcohol | Ingestion | Not classified for development | Rat | NOAEL 400 mg/kg/day | during organogenesis |
| Isopropyl alcohol | Inhalation | Not classified for development | Rat | LOAEL 9 mg/l | during gestation |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Isopropyl alcohol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Isopropyl alcohol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Isopropyl alcohol | Inhalation | auditory system | Not classified | Guinea pig | NOAEL 13.4 mg/l | 24 hours |
| Isopropyl alcohol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| Lauryl Glycoside | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| Sodium Lauryl Sulfate | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not available | |
| Potassium Carbonate | Inhalation | respiratory irritation | May cause respiratory irritation | | NOAEL not available | |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Isopropyl alcohol | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 12.3 mg/l | 24 months |
| Isopropyl alcohol | Inhalation | nervous system | Not classified | Rat | NOAEL 12 mg/l | 13 weeks |
| Isopropyl alcohol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 400 mg/kg/day | 12 weeks |
| Lauryl Glycoside | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 250 mg/kg/day | 90 days |
| Lauryl Glycoside | Ingestion | endocrine system \| liver \| immune system \| nervous system \| hematopoietic system \| eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |

**Aspiration Hazard**
For the component/components, either no data are currently available or the data are not sufficient for classification.

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

# SECTION 12: Ecological information

**The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in**

**Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.**

**12.1. Toxicity**
**Ecotoxic to the aquatic environment.**
Acute Aquatic Toxicity: Category 3 (HSNO 9.1D Aquatic toxicity)

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| Decyl Glycoside | 68515-73-1 | Green algae | Experimental | 72 hours | EC50 | 27.22 mg/l |
| Decyl Glycoside | 68515-73-1 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Decyl Glycoside | 68515-73-1 | Zebra Fish | Experimental | 96 hours | LC50 | 101 mg/l |
| Decyl Glycoside | 68515-73-1 | Water flea | Estimated | 21 days | NOEC | 2 mg/l |
| Decyl Glycoside | 68515-73-1 | Zebra Fish | Estimated | 28 days | NOEC | 1.8 mg/l |
| Decyl Glycoside | 68515-73-1 | Green algae | Experimental | 72 hours | Effect Concentration 10% | 6.25 mg/l |
| Isopropyl alcohol | 67-63-0 | Crustacea | Experimental | 24 hours | LC50 | >10,000 mg/l |
| Isopropyl alcohol | 67-63-0 | Green Algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Isopropyl alcohol | 67-63-0 | Ricefish | Experimental | 96 hours | LC50 | >100 mg/l |
| Isopropyl alcohol | 67-63-0 | Water flea | Experimental | 48 hours | EC50 | >1,000 mg/l |
| Isopropyl alcohol | 67-63-0 | Green algae | Experimental | 72 hours | NOEC | 1,000 mg/l |
| Isopropyl alcohol | 67-63-0 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| Lauryl Glycoside | 110615-47-9 | Green algae | Experimental | 72 hours | EC50 | 12.5 mg/l |
| Lauryl Glycoside | 110615-47-9 | Water flea | Experimental | 48 hours | EC50 | 7 mg/l |
| Lauryl Glycoside | 110615-47-9 | Zebra Fish | Experimental | 96 hours | LC50 | 2.95 mg/l |
| Lauryl Glycoside | 110615-47-9 | Green algae | Experimental | 72 hours | Effect Concentration 10% | 4.15 mg/l |
| Lauryl Glycoside | 110615-47-9 | Water flea | Experimental | 21 days | NOEC | 2 mg/l |
| Lauryl Glycoside | 110615-47-9 | Zebra Fish | Experimental | 28 days | NOEC | 1.8 mg/l |
| Potassium Carbonate | 584-08-7 | Rainbow trout | Experimental | 96 hours | LC50 | 68 mg/l |
| Potassium Carbonate | 584-08-7 | Water flea | Experimental | 48 hours | EC50 | 200 mg/l |
| Sodium Lauryl | 151-21-3 | Algae or other | Experimental | 96 hours | EC50 | 30.2 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| Sulfate | | aquatic plants | | | | |
| Sodium Lauryl Sulfate | 151-21-3 | Atlantic Silverside | Experimental | 96 hours | LC50 | 2.8 mg/l |
| Sodium Lauryl Sulfate | 151-21-3 | Crustecea other | Experimental | 48 hours | LC50 | 1.9 mg/l |
| Sodium Lauryl Sulfate | 151-21-3 | Fish other | Experimental | 96 hours | LC50 | 0.59 mg/l |
| Sodium Lauryl Sulfate | 151-21-3 | Green algae | Experimental | 96 hours | EC50 | 117 mg/l |
| Sodium Lauryl Sulfate | 151-21-3 | Water flea | Experimental | 48 hours | LC50 | 1.4 mg/l |
| Sodium Lauryl Sulfate | 151-21-3 | Fathead minnow | Experimental | 42 days | NOEC | 1.357 mg/l |
| Sodium Lauryl Sulfate | 151-21-3 | Green Algae | Experimental | 96 hours | Effect Concentration 10% | 12 mg/l |
| Sodium Lauryl Sulfate | 151-21-3 | Water flea | Experimental | 7 days | NOEC | 0.88 mg/l |

**12.2. Persistence and degradability**

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Decyl Glycoside | 68515-73-1 | Experimental Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 100 % weight | OECD 301E - Modified OECD Scre |
| Isopropyl alcohol | 67-63-0 | Experimental Biodegradation | 14 days | BOD | 86 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Lauryl Glycoside | 110615-47-9 | Experimental Biodegradation | 28 days | BOD | 88 % weight | OECD 301D - Closed bottle test |
| Potassium Carbonate | 584-08-7 | Data not availbl-insufficient | | | N/A | |
| Sodium Lauryl Sulfate | 151-21-3 | Experimental Biodegradation | 28 days | CO2 evolution | 95 % weight | OECD 301B - Modified sturm or CO2 |

**12.3 : Bioaccumulative potential**

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Decyl Glycoside | 68515-73-1 | Estimated Bioconcentration | | Log Kow | 1.72 | Other methods |
| Isopropyl alcohol | 67-63-0 | Experimental Bioconcentration | | Log Kow | 0.05 | Other methods |
| Lauryl Glycoside | 110615-47-9 | Estimated Bioconcentration | | Log Kow | ≤0.07 | Estimated: Octanol-water partition coefficient |
| Potassium Carbonate | 584-08-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Sodium Lauryl Sulfate | 151-21-3 | Experimental Bioconcentration | | Log Kow | ≤-2.03 | Other methods |

**12.4. Mobility in soil**
Please contact manufacturer for more details

**12.5 Other adverse effects**
No information available.

## SECTION 13: Disposal considerations

**13.1. Disposal methods**
In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

## SECTION 14: Transport Information

**New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport**
**UN No.:** UN1987
**Proper Shipping Name:** ALCOHOL, N.O.S. , ( Isopropyl Alcohol )
**Class/Division:** 3
**Sub Risk:** Not applicable.
**Packing Group:** III
**Special Instructions:** NZS 5433: Part 1:2012, 2.3.1.2 (a). This product is not classified as a flammable liquid as the product has a flash point of more than 35°C and does not sustain combustion when tested according to the UN Manual of Tests and Criteria, Part III, subsection 35.5.2 Sustained Combustibility Test.
**Hazchem Code:** -3Y
**IERG:** 14

**International Air Transport Association (IATA) - Air Transport**
**UN No.:** UN1987
**Proper Shipping Name:** ALCOHOL, N.O.S. , ( Isopropyl Alcohol )
**Class/Division:** 3
**Sub Risk:** Not applicable.
**Packing Group:** III
**Special Instructions:** Not restricted as per IATA 3.3.1.3 (a). This product is not classified as a flammable liquid as the product has a flash point of more than 35°C and does not sustain combustion when tested according to the UN Manual of Tests and Criteria, Part III, subsection 35.5.2 Sustained Combustibility Test.

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport**
**UN No.:** UN1987
**Proper Shipping Name:** ALCOHOL, N.O.S. , ( Isopropyl Alcohol )
**Class/Division:** 3
**Sub Risk:** Not applicable.
**Packing Group:** III
**Marine Pollutant:**
**Special Instructions:** Not restricted per IMDG Code 2.3.1.3.1. This product is not classified as a flammable liquid as the product has a flash point of more than 35°C and does not sustain combustion when tested according to the UN Manual of Tests and Criteria, Part III, subsection 35.5.2 Sustained Combustibility Test.

## SECTION 15: Regulatory information

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|---|---|
| HSNO Approval number | HSR002528 |
| Group standard name | Cleaning Products (Flammable) Group Standard 2017 |
| HSNO Hazard classification | Refer to Section 2: Hazard identification |

**NZ Inventory of Chemicals (NZIoC) Status**
All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

**Controls in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017**

| | |
|---|---|
| Certified handler | Not required |
| Location Compliance Certificate | 500 L (closed containers greater than 5 L) 1,500 L (closed containers up to and including 5 L) 250 L (open containers) |
| Hazardous atmosphere zone | 100 L (closed containers) 25 L (decanting) 5 L (open occasionally) 1 L (open containers in continuous use) |
| Fire extinguishers | Two required for 500 L |
| Emergency response plan | 100 L (for a HSNO 9.1A substance); or 1,000 L (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L (for all other substances) |
| Secondary containment | 100 L (for a HSNO 9.1A substance); or 1,000 L (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L (for all other substances) |
| Tracking | Not required |
| Warning signage | 100 L (for a HSNO 9.1A substance) or 1,000 L (for all other substances) |

## SECTION 16: Other information

**Revision information:**
Complete document review.

| | | | |
|---|---|---|---|
| **Document group:** | 28-9276-8 | **Version number:** | 3.00 |
| **Issue Date:** | 17/08/2020 | **Supersedes date:** | 12/05/2015 |

**Key to abbreviations and acronyms**
**GHS** means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013
**HSNO** means Hazardous Substances and New Organisms Act 1996

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