



Date: 12.10.2018

**Dairy Mark (aerosol)**

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### Section 1 – Identification of the substance/preparation and the company

**Product Name:** Dairy Mark  
**Company:** Donaghys Ltd.  
**Address:** 16 Sheffield Crescent  
PO Box 20 449  
Christchurch  
**Telephone Number:** 0800 942 006  
**Recommended Use:** Application is by spray atomisation from a hand held aerosol pack.

### Section 2 – Hazard Identification

**Hazard Classes:** 2.1, 2A, 6.1E (Oral), 6.3B, 6.4A, 9.1B  
**EPA NZ Approval Code:** HSR002515

### Section 3 – Composition Information

Chemical Entity	CAS No.	Content
Propellant: Propane / n-Butane / iso-Butane	74-98-6 / 106-97-8 / 75-28-5	20-30%
Heptane	142-82-5	40-45%
Calcium carbonate	1317-65-3	5-10%
Acetone	67-64-1	1-3%
Ethyl Alcohol	64-17-5	1-3%
Crystalline silica (quartz)*	14808-60-7	<1%

### Section 4 – First Aid Measures

**If Swallowed:** DO NOT induce vomiting. Rinse mouth. Avoid giving milk, oils or alcohol to drink. If unwell get medical advice/attention

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists, contact a POISON CENTRE or doctor/physician.

**If on skin:** Wash with plenty of soap and water. Wash contaminated clothing before reuse.

**If inhaled:** Remove to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist get medical advice/attention.

**Advice to Doctor:** For acute or short term repeated exposures to xylene:  
· Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.  
· Pulmonary absorption is rapid with about 60-65% retained at rest.

**POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)**

**IN CASE OF EMERGENCY PHONE**  
**National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)**

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### Section 5 – Fire-fighting Measures

<b>Hazard</b>	<ul style="list-style-type: none"><li>· Liquid and vapour are highly flammable.</li><li>· Severe fire hazard when exposed to heat or flame.</li></ul> Combustion products include: carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.
<b>Combustion Products:</b>	Combustion products include: carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), other pyrolysis products typical of burning organic material.
<b>Protective Equipment:</b>	Breathing apparatus and protective gloves and clothing
<b>Extinguishing Media:</b>	SMALL FIRE: <ul style="list-style-type: none"><li>· Water spray, dry chemical or CO<sub>2</sub></li></ul> LARGE FIRE: <ul style="list-style-type: none"><li>· Water spray or fog.</li><li>· Foam.</li><li>· Dry chemical powder.</li></ul>
<b>Special Fire Fighting Methods:</b>	Alert Fire Brigade and tell them location and nature of hazard. <ul style="list-style-type: none"><li>· May be violently or explosively reactive.</li></ul> When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 100 meters in all directions.

### Section 6 – Accidental Release Measures

<b>Spills and Disposal:</b>	<b>MINOR SPILLS</b> Environmental hazard - contain spillage. <ul style="list-style-type: none"><li>· Clean up all spills immediately.</li></ul> <b>MAJOR SPILLS</b> Environmental hazard - contain spillage. <ul style="list-style-type: none"><li>· Clear area of personnel and move upwind.</li><li>· Alert Fire Brigade and tell them location and nature of hazard.</li><li>· Remove leaking cylinders to a safe place.</li><li>· Fit vent pipes. Release pressure under safe, controlled conditions.</li><li>· DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve.</li><li>· Clear area of personnel and move upwind.</li><li>· Alert Fire Brigade and tell them location and nature of hazard.</li></ul>
<b>Protective Equipment:</b>	<b>Personal Protective Equipment advice is contained in Section 8 of the MSDS.</b>
<b>Environmental Precautions:</b>	Avoid entry into waterways or streams. Prevent washings from entering waterways.

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**Section 7– Handling and Storage**

**Storage:**

- Aerosol dispenser.
- Protect from sunlight.
- DO NOT expose to temperatures exceeding 50°C
- Check that containers are clearly labeled.
- Avoid reaction with oxidising agents.
- Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can.
- Store in original containers in approved flammable liquid storage area.
- DO NOT store in pits, depressions, basements or areas where vapors may be trapped.

**Handling:**

- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- DO NOT allow clothing wet with material to stay in contact with skin.
- Electrostatic discharge may be generated during pumping - this may result in fire.
- Ensure electrical continuity by bonding and grounding (earthing) all equipment.  
Natural gases contain a contaminant, radon-222, a naturally occurring radioactive gas. During subsequent processing, radon tends to concentrate in liquefied petroleum streams and in product streams having similar boiling points.
- Atmospheres must be tested and O.K. before work resumes after leakage.
- Avoid generation of static electricity. Earth all lines and equipment.
- Obtain a work permit before attempting any repairs.
- Do not attempt repair work on lines, vessels under pressure.
- DO NOT transfer gas from one cylinder to another.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.



### Section 8 – Exposure Controls/Personal Protection

These precautions are suggested for conditions where the potential for exposure to the product exists. Emergency conditions may require additional precautions.

**Exposure Limits:** Toluene TWA = 50ppm, = 188mg/m<sup>3</sup>

Dibutyl phthalate TWA = 5mg/m<sup>3</sup>

LPG TWA = 1000ppm, = 1800mg/m<sup>3</sup>

**Protective**

**Equipment:**

**RESPIRATOR** - Type AX-P Filter of sufficient capacity

**EYE** - No special equipment for minor exposure i.e. when handling small quantities.

**HANDS/FEET** - NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Suitability and durability of glove type is dependent on usage. Factors such as: · frequency and duration of contact, chemical resistance of glove material. No special equipment needed when handling small quantities.

OTHERWISE: For potentially moderate exposures:

Wear general protective gloves, eg.

**OTHER**

The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton. No special equipment needed when handling small quantities.

OTHERWISE:

- Overalls.
- Skin cleansing cream.

**Hygiene Precautions:**

**Engineering**

**Controls:**

Do not eat, drink or smoke when using this product.

General exhaust is adequate under normal conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection.

### Section 9 – Physical and Chemical Properties

**Appearance:**

Gas

**Odour:**

Hydrocarbon odour

**Specific Gravity:**

0.77 – 0.82

**pH:**

N/App

**Vapour Pressure:**

N/A

**Flash Point:**

-81°C (Propellant)

**Autoignition Temperature:**

N/A

**Flammability Limits:**

N/A

**Solubility:**

Product is immiscible in water

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### Section 10 – Stability and Reactivity

<b>Stability:</b>	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Conditions to Avoid:</b>	Avoid direct sunlight, heat and open flame
<b>Materials to Avoid:</b>	None
<b>Hazardous Decomposition Products:</b>	

### Section 11 – Toxicological Information

**No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.**

#### POTENTIAL HEALTH EFFECTS

##### ACUTE HEALTH EFFECTS

Vapours may cause dizziness or. Suffocation.

Vapours may cause drowsiness and dizziness.

Inhalation, skin contact and/or by prolonged exposure through inhalation.

ingestion may produce health damage\*.

Possible skin sensitiser\*.

May produce discomfort of the eyes, respiratory tract and skin\*.

##### CHRONIC HEALTH EFFECTS

May cause harm to the unborn child

Harmful: danger of serious damage to health

Limited evidence of a carcinogenic effect\*.

Cumulative effects may result following exposure\*.

\* (limited evidence).

#### TOXICITY AND IRRITATION

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.

### Section 12 - Ecological Information

<b>EPA Classification:</b>	9.1B
<b>Ecotoxicity:</b>	Harmful to the aquatic environment
<b>Bioaccumulation:</b>	Product is not known to be persistent or bio accumulative

### Section 13 – Disposal Considerations

<b>Product Disposal:</b>	If possible dispose of by using according to the label, otherwise dispose of in an approved landfill or bury below 50 cm in a disposal pit specifically marked and set up for this purpose clear of waterways
<b>Container Disposal:</b>	Triple rinse container and add residue to spray system. If circumstances, especially wind direction, permit the empty containers may be burned, otherwise crush and bury in a suitable landfill.

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### Section 14 – Transport Information

**Name :** Dairy Mark  
**Proper Shipping:** AEROSOLS  
**UN Number:** 1950  
**DG Class:** 2.1  
**Subsidiary Risk Class:** None assigned  
**Packing Group:** None assigned  
**HAZCHEM Code:** 2YE

### Section 15 – Regulatory Information

**ERMA NZ Registration Code:** HSR002515

### Section 16 – Other Information

The information in this MSDS is provided in good faith, but no warranty, expressed or implied is made. Contact Donaghys Ltd for more information.

#### EMERGENCY CONTACTS:

**DONAGHYS NZ:** 0800 942 006  
**DONAGHYS AUSTRALIA:** 1800 644 404  
**POLICE, AMBULANCE & FIRE SERVICE:** 111  
**NATION POISON INFORMATION CENTRE:** 0800 POSION (0800 764 766)  
**HAZARDOUS SUBSTANCES EMERGENCY:** 0800 CHEMCALL (0800 243 622)

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