Safety Data Sheet

Section 1. Product and Company Identification.

1.1 Model Number; DL 158 v1 / DL159 v1

1.2 Description; 3 Way Fridge, Gas/12V/230V- 40L / 60L
Battery: 1.5 Volts. 12 grams.

1.3 Manufacturer;

Jack Sealey Ltd.
t/a Sealey Group.
Kempson Way,
Bury St. Edmunds,
Suffolk.
IP32 7AR
UK.

Jack Sealey (EU) Ltd
t/a Sealey Group.
Farney Street,
Carrickmacross,
Co. Monaghan,
A81 PK68
Ireland.

technicalcompliance@sealey.co.uk

1.4 Emergency telephone number; 44 (0) 1284 757 500 (Office Hours)

Date of source compilation; 01/01/2026

Section 2. Hazards Identification.

Battery is hermetically sealed and does not present a hazard under normal conditions of use.
Inappropriate handling and / or use can cause electrolyte to leak.

Ingestion:	Contents of an open battery can cause chemical burns of mouth, oesophagus, and gastrointestinal tract.
Inhalation:	Contents of an open battery can cause respiratory irritation.
Skin Contact:	Contents of an open battery can cause skin irritation and chemical burns.
Eye Contact:	Contents of an open battery can cause irritation and chemical burns.

Section 3. Substances.

3.1 Chemical Name (substance)	**3.1 CAS No.**	**3.2 Concentration Volume**	**Classification**	
			Hazard Class & Category Code	**Hazard Statements [1]**
Manganese Dioxide	1313-13-9	36-44%	Acute Tox. 4 Acute Tox. 4	H332 H302
Zinc	7440-66-6	13-18%	-	-
Steel	7439-89-6	10-18%	-	-
Potassium Hydroxide	1310-58-3	4-9%	Acute Tox. 4 Skin Corr.	H302 H314
Brass	12597-71-6	2-4%	-	-
Graphite	7782-42-5	1-4%	-	-
Zinc Oxide	1314-13-2	<1%	-	-
Ni-plating	7440-02-0	<0.5%	-	-

[1]For full text of Statements, see Section 16.

Section 4. First Aid Measures.

Batteries do not pose a risk to eyes or skin under normal circumstances.
In the case of contact with internal substances;

4.1 Description of first aid measures

Inhalation If breathing difficulties develop, remove the person to fresh air.
Loosen close fitting clothing.
Ensure that person is warm.
Get medical attention.

Skin Contact Remove contaminated clothing.
Wash affected area(s) with soap and water.
Seek medical attention if chemical burn(s) appear or if symptoms persist.

Eye Contact irrigate eyes with water for at least 15 minutes while raising eyelid(s).
Get medical attention.

Ingestion Do not induce vomiting.
Do not give food or drink.
Get medical attention.

Do not induce vomiting.
Do not give food or drink.
Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed
No information available.

4.3. Indication of any immediate medical attention and special treatment needed
No information available.

Section 5. Fire Fighting Measures.

5.1. Extinguishing media
Any extinguishing media.
Use extinguishing media that is appropriate for the surrounding area.

5.2. Special hazards arising from the substance or mixture
Move batteries away from a fire incident, if safe to do so.
Cool batteries to reduce the risk of rupture.

5.3. Advice for fire-fighters
Fire Fighters should wear self-contained breathing apparatus and appropriate Personal Protective Equipment.
Thermal degradation may produce hazardous fumes of zinc and manganese; hydrogen gas, caustic vapours of potassium hydroxide and other toxic by-products.

Section 6. Accidental Release Measures.

6.1. Personal precautions, protective equipment and emergency procedures
Wear appropriate protective clothing, see section 8.

6.2. Environmental precautions
Ventilate area.

6.3. Methods and material for containment and cleaning up
Collect in a leak proof container.
Place battery in a sealed bag with an absorbent such as sand, silica, chalk, lime powder or vermiculite.
Rinse contamination with water.
Prevent contaminated water from entering sewers or water courses.

6.4. Reference to other sections
See Section 7 for information on Safe Handling
See Section 8 for information of Personal Protective Equipment.
See Section 13 for information on disposal.

Section 7. Handling and Storage.

7.1. Precautions for safe handling
Wear appropriate protective clothing, see section 8

7.2. Conditions for safe storage, including any incompatibilities
Store batteries in a well ventilated area.
Do not short circuit a battery. A short circuit causes heating and can lead to ignition of surrounding materials.
To minimize the risk of a short circuit, always store batteries in an appropriate container to prevent contact with conductive materials.
Keep batteries away from children.

7.3. Specific end use(s)
Intended for use as the battery for the Model Numbers identified in 1.1 with Description stated in 1.2.

Section 8. Exposure Controls/Personal Protection.

8.1. Control parameters
In the event of battery rupture and leakage:
Ventilate the area.
Remove sources of ignition.

8.2. Exposure controls
The use of Personal Protective Equipment (PPE) is not necessary under conditions of normal use.
If handling a leaking or ruptured battery, ensure that the following Personal Protective Equipment (PPE) is used.

Eye/Face Protection
Chemical grade full face shield

Skin Protection
Acid resistant, natural rubber or neoprene gloves.
Protective rubber apron
Appropriate Personal Protection with long sleeves and long trousers.

Respiratory Protection
Acid gas filter mask or self-contained breathing apparatus.

Section 9. Physical and Chemical Properties.

9.1. Information on basic physical and chemical properties
The following information is not a technical specification or sales specification.

(a) Appearance:	Solid cylindrical
(b) Odour:	Not relevant to battery as supplied.
(c) Odour threshold;	Not relevant to battery as supplied.
(d) pH:	No data available.
(e) Melting point/freezing point;	Not relevant.
(f) Initial boiling point and boiling range;	Not relevant.
(g) Flash point;	No data available.
(h) Evaporation rate;	Not relevant to battery as supplied.
(i) Flammability (solid, gas);	No data available.
(j) Upper/lower flammability or explosive limits;	No data available.
(k) Vapour pressure;	Not relevant.
(l) Vapour density;	Not relevant.
(m) Relative density;	Not relevant.
(n) Solubility(ies);	Battery insoluble in water.
(o) Partition coefficient: n-octanol/water;	Not relevant.
(p) Auto-ignition temperature;	No data available.
(q) Decomposition temperature;	No data available.
(r) Viscosity;	Not relevant.
(s) Explosive properties;	No data available.
(t) Oxidising properties.	No data available.

9.2 Other information — No data available.

Section 10. Stability and Reactivity.

10.1. Reactivity	No data available.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	No data available.
10.4. Conditions to avoid	Mechanical shock. Vibrations during transport are not detrimental to condition. Do not dismantle, crush or install with incorrect polarity. Prevent mechanical / electrical misuse.
10.5. Incompatible materials	Strong oxidising agents. Do not heat, crush, disassemble, short circuit or recharge.
10.6. Hazardous decomposition products	Thermal de

Section 11. Toxicological Information.

11.1. Information on toxicological effects

The materials that comprise this battery are hermetically sealed.

The potential for exposure to materials is negligible when this battery is used as directed. See Section 7.

Inappropriate handling and / or inappropriate use of this battery may result in release of the materials that are sealed within.

Inhalation, skin contact and eye contact are possible when the battery is opened.

Exposure to internal components and corrosive fumes will cause irritation to the eyes skin and mucous membranes.

Section 12. Ecological Information.

When properly used and disposed of correctly, the battery does not present environmental hazard.
Do not release internal components into water ways, wastewater or ground water.

Section 13. Disposal Considerations.

13.1. Waste treatment methods
Disposal of the battery must be in accordance with local authority regulations.
The battery should be completely discharged prior to disposal and the terminals taped or capped to prevent short circuit.
Do not dispose of batteries with household waste.
Do not dispose of batteries at landfill sites.
Do not incinerate batteries.

Section 14. Transport Information.

ADR. International Carriage of Dangerous Goods by Road.
Not subject to ADR.

IATA. International Air Transport Association.
Special Provision A123.
Batteries not otherwise listed as Dangerous Goods concerning transport by air, no UN Code refers.
Examples of such batteries are (but not restricted to) alkali-manganese, zinc-carbon and nickel cadmium batteries.

Any electrical battery or battery powered device, equipment or vehicle having the potential of a dangerous evolution of heat must be prepared for transport so as to prevent:
(a) a short circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by the disconnection of the battery and protection of exposed terminals); and
(b) accidental activation.

The words “Not restricted, as per Special Provision A123” must be included in the description of the article on the Air Waybill when required.

IMDG. International Maritime Dangerous Goods.
Not subject to IMDG.

Section 15. Regulatory Information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available.

15.2. Chemical safety assessment
No data available.

Section 16. Additional Information.

Full text of Statements used in Section 3;
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.

The above information is believed to be accurate and represents the best information currently available.
No warranty is expressed or implied by the above information.
We assume no liability resulting from use of the above information.
The end user should conduct their own investigations to determine the suitability of the above information for their particular purpose.

Issue level	Date	Revisions
1	12/01/2026	First issue.

End of Safety Data Sheet.

Section 1. Product and Company Identification.

1.1 Model Number; DL 158 v1 / DL159 v1

1.2 Description; 3 Way Fridge, Gas/12V/230V- 40L / 60L
Refrigerant gas. 221.5 grams

1.3 Manufacturer;

Jack Sealey Ltd t/a Dellonda,
Kempson Way,
Bury St. Edmunds,
Suffolk,
IP32 7AR
UK

Jack Sealey (EU) Ltd t/a Dellonda,
Farney Street,
Carrickmacross,
Co. Monaghan,
A81 PK68
Ireland

technicalcompliance@sealey.co.uk

1.4 Emergency telephone number; 44 (0) 1284 757 500 (Office Hours)

Date of source compilation; 01/02/2000

Section 2. Hazards Identification.

2.1 Classification of the substance or mixture.
Not relevant to the Model Number identified in 1.1 with Description stated in 1.2.

Section 3. Substances.

3.1 Chemical Name (substance)	**3.1 CAS No.**	**3.2 Concentration Weight**	**Classification**	
			Hazard Class & Category Code	**Hazard Statements [1]**
Water	-	145 grams	-	-
Ammonia, anhydrous	7664-41-7	72 grams	Flam. Gas 2 Acute Tox. 3 Skin Corr. 1B Aquatic Acute 1	H221 H331 H314 H400
Sodium chromate	7775-11-3	4.5 grams	Carc. 1B Muta. 1B Repr. 1B Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 STOT RE 1 Skin Corr. 1B Resp. Sens. 1 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	H350 H340 H360 H330 H301 H312 H372 H314 H334 H317 H400 H410

[1]For full text of Statements, see Section 16.

Section 4. First Aid Measures.

4.1 Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

Rinse skin with water/shower.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Thaw frosted parts with lukewarm water. Do no rub affected area.
Rinse skin with water/shower.

4.2. Most important symptoms and effects, both acute and delayed
No data available.

4.3. Indication of any immediate medical attention and special treatment needed
No data available.

Section 5. Fire Fighting Measures.

5.1. Extinguishing media
Not flammable. Use media suitable for surrounding materials.

5.2. Special hazards arising from the substance or mixture
Fire may produce irritating, corrosive and/or toxic gases.

5.3. Advice for fire-fighters
Run off from fire control may be corrosive and cause environmental contamination.

Section 6. Accidental Release Measures.

6.1. Personal precautions, protective equipment and emergency procedures
No data available.

6.2. Environmental precautions
Do not allow to enter drains / Sewars / water sources.
Do not allow ground water contamination.

6.3. Methods and material for containment and cleaning up
No data available.

6.4. Reference to other sections
See Section 7 for information on Safe Handling
See Section 8 for information of Personal Protective Equipment.
See Section 13 for information on disposal.

Section 7. Handling and Storage.

7.1. Precautions for safe handling
Use Personal Protective Equipment.

7.2. Conditions for safe storage, including any incompatibilities
Store in a cool, dry and well ventilated area.

7.3. Specific end use(s)
Intended for use as refrigerant gas for the Model Number identified in 1.1 with Description stated in 1.2.

Section 8. Exposure Controls/Personal Protection.

8.1. Control parameters
Workplace exposure limits.

Substance	CAS number	Workplace exposure limit. Long term.		Short term.	
		ppm	$mg.m^3$	ppm	$mg.m^3$
Ammonia, anhydrous	7664-41-7	25	18	35	25

8.2. Exposure controls

Appropriate Engineering Controls
Ensure adequate ventilation.

Eye/Face Protection
Use chemically protective eye/face protection.

Skin Protection
Use chemically protective clothing.

Respiratory Protection
Protect nose and mouth to include filtering cannister.

Section 9. Physical and Chemical Properties.

9.1. Information on basic physical and chemical properties

The following information is not a technical specification or sales specification.

(a) Appearance:	Solution.
(b) Odour:	No data available.
(c) Odour threshold;	No data available.
(d) pH:	Not applicable.
(e) Melting point/freezing point;	No data available.
(f) Initial boiling point and boiling range;	No data available.
(g) Flash point;	Not applicable.
(h) Evaporation rate;	No data available.
(i) Flammability (solid, gas);	Non-flammable.
(j) Upper/lower flammability or explosive limits;	No data available.
(k) Vapour pressure;	No data available.
(l) Vapour density;	No data available.
(m) Relative density;	No data available.
(n) Solubility(ies);	Soluble in water.
(o) Partition coefficient: n-octanol/water;	No data available.
(p) Auto-ignition temperature;	No data available.
(q) Decomposition temperature;	No data available.
(r) Viscosity;	No data available.
(s) Explosive properties;	Not explosive.
(t) Oxidising properties.	Non oxidizing.

9.2 Other information	No data available.

Section 10. Stability and Reactivity.

10.1. Reactivity	No data available.
10.2. Chemical stability	Stable at ambient temperature and under normal conditions of use.
10.3. Possibility of hazardous reactions	No data available.
10.4. Conditions to avoid	No data available.
10.5. Incompatible materials	No data available.
10.6. Hazardous decomposition products	No data available.

Section 11. Toxicological Information.

11.1. Information on toxicological effects

No data available.

Section 12. Ecological Information.

12.1. Toxicity	No data available.
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No data available.
12.6. Other adverse effects	Reacts exothermically with acids to produce water and ammonium salts.

Section 13. Disposal Considerations.

13.1. Waste treatment methods

Dispose of in accordance with local authority regulations.

Section 14. Transport Information.

ADR. International Carriage of Dangerous Goods by Road.

14.1. UN number	UN 2857
14.2. Name and Description	Refrigerating machines containing non-flammable, non-toxic gases or ammonia solutions (UN 2672)

Special Provision 119
Refrigerating machines include machines or other appliances which have been designed for the specific purpose of keeping food or other items at a low temperature in an internal compartment, and air conditioning units. Refrigerating machines and refrigerating machine components are not subject to the provisions of ADR if they contain less than 12 kg of gas in Class 2, group A or O according to 2.2.2.1.3, or if they contain less than 12 litres ammonia solution (UN No.2672).

IATA. International Air Transport Association.

14.1. UN number	UN 2857
14.2. UN Proper Shipping Name/Description	Refrigerating machines containing non-flammable, non-toxic, liquefied gas or ammonia solutions (UN 2672)

Special Provision A26 (119).
Refrigerating machines include air conditioning units and machines or other appliances which have been designed for the specific purpose of keeping food or other items at low temperature in an internal compartment. Refrigerating machines and refrigerating machine components are considered not subject to these Regulations if containing less than 12 kg of gas in Division 2.2 or if containing less than 12 L ammonia solution (UN 2672).

IMDG. International Maritime Dangerous Goods.

14.1. UN number	UN 2857
14.2. UN proper shipping name	Refrigerating machines containing non-flammable, non-toxic gases or ammonia solutions (UN 2672)

Special Provision 119.
Refrigerating machines and refrigerating-machinery components including machines or other appliances which have been designed for the specific purpose of keeping food or other items at a low temperature in an internal compartment, and air-conditioning units. Refrigerating machines and refrigerating-machine components are not subject to the provisions of this Code if they contain less than 12 kg of gas in class 2.2 or less than 12 L of ammonia solution (UN 2672).

Section 15. Regulatory Information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available.

15.2. Chemical safety assessment
No data available.

Section 16. Additional Information.

Full text of Statements used in Section 3;
H221 Flammable gas.
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340 May cause genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

The above information is believed to be accurate and represents the best information currently available.
No warranty is expressed or implied by the above information.
We assume no liability resulting from use of the above information.
The end user should conduct their own investigations to determine the suitability of the above information for their particular purpose.

Issue level	Date	Revisions
1	29/02/2024	First issue.
2	08/01/2026	Section 1

End of Safety Data Sheet.