

## Section 1. Product and Company Identification.

**1.1 Model Number;** DL159 v1  
**1.2 Description;** 3 Way Fridge, Gas/12V/230V, 60L, Camping, Motorhome, Truck, Black Refrigerant gas. 221.5 grams

**1.3 Manufacturer;**  
 Dellonda  
 Kempson Way,  
 Bury St. Edmunds,  
 Suffolk.  
 IP32 7AR

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

**Date of source compilation;** 01/02/2000

## Section 2. Hazards Identification.

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 <sup>1</sup>
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

<sup>1</sup>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 not 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 / Sewers / 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 <sup>3</sup>	ppm	mg.m <sup>3</sup>
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

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## 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 Phrases and 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.

End of Safety Data Sheet.