Camlab Limited – Material Safety Data Sheet

1. Identification	
Product Code	CC/3144-DH
Product Name	NITRIC ACID 1.0M (N/1) A.R.
CAS Number	7697-37-2
Supplier:	CAMLAB LIMITED
camlab	Norman Way Industrial Estate Over Cambridge England CB4 5WE
Phone	01954 233110
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	24hr 112 (Have this document to hand)
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2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Nitric acid	7697-37-2	231-714-2	6.3%	C : R8,R35	WEL

3. Hazards Identification

Causes burns.



4. First Aid Me	asures
Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. OBTAIN MEDICAL ATTENTION URGENTLY.
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If conscious place in a sitting position. OBTAIN MEDICAL ATTENTION URGENTLY.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting	Measures
Hazards	Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire- fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire.
Extinguishing Media	Consider what other flammable materials are present and act accordingly.
Unsuitable Media	Nothing specified.

6. Accidental Release Measures

Personal Protection Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

6. Accidental Re	lease Measures (continued)
Enviromental	Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Major Spillage	Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.
Minor Spillage	Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits. Storage Conditions Well ventilated, cool, dry storage .

8.1 Workplace Exposure Limits

Component	CAS No	Workplace Expos	Workplace Exposure Limits		Maximum Exposure Limits	
		Long Term	Short Term	Long Term	Short Term	
		ppm mg m–3	ppm mg m–3	ppm mg m–3	ppm mg m_3	
Nitric acid	7697-37-2	2.000 5.200	4.000 10.00			

8.2 Personal Protection Respiratory Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus. Hands Use PVC gauntlets. Eyes Use chemical splash proof glasses or goggles. Skin If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	Clear colourless liquid.
Odour	Odourless.
рH	1 @ 20 °C
Boiling point	Aqueous solution
Melting point	Aqueous solution
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	No.
Vapour Presure	9 mmHg @ 20 C
Relative Density	1.0330 °C
Water Solubility	Completely soluble in water with moderate increase in temperature.

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	No specific conditions.
Materials to Avoid	Reducing agents. Alkalis.
Hazardous Decomposition Products	May produce hazardous fumes if involved in a fire.

11. Toxicological	Information
Eyes	The liquid is be extremely irritating to eyes and can cause chemical eye burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	The liquid will cause severe burns. Dilute solutions will be irritating to the skin.
LD50 Skin	Not available
Ingest	Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Symptoms may include salivation, thirst, difficulty in swallowing, pain, shock and vomiting.
LD50 Ingest	Not available
Inhalation	Presents no significant health hazard by inhalation.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	No information is available.
Reproductive Effects	None identified.

12. Ecological

Acidic, nutrient for undesirable algae.

13. Disposal Cons	siderations
Disposal Methods	Dilute in a large excess of water and carefully neutralise with soda ash, then wash to drain with copious amounts of water.

Contaminated Packaging Very carefully wash out containers with water. Use a licensed waste disposer.

14. Transport Information Proper Shipping Name Nitric Acid UN Number 2031 UN Classification 8 Corrosive Subsidiary Risk None Flash Point Not available Ę Packing Group ΙI CORROSIVE Transport Category 2 Marine pollutant No ADR Hazard ID 80

15. Regulatory Information

Labelling Classification	Corrosive.
Label Symbols	
Risk & safety Phrases	Causes burns. Keep locked up and out of reach of children. Do not breath vapour. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label).

EEC Number

231-714-2

16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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