

Product Name : SPIT FUEL CELL

Ramset NZ

Other Names :

A Division of ITW NZ Ltd

Part No. : Trakmaster FUEL CELL PULSA 700 E & PULSA 700P

PO Box 40-031

MSDS No. : NZ5800

Glenfield. Auckland

Date & Issue : Dec 11 2006/ ISSUE B

www.ramset.co.nz

1: RECOMMENDED USE

Compressed Gas Fuel Cell

2: HAZARDS IDENTIFICATION

UN No : 1950

Hazchem Code :

Road/Rail-transport/ADR/RID)

Class/packing group : 2/-

1950 AEROSOLS

Classification code : 5F

LQ : 2

Marine Transport

IMDG – Code : /2/- (class/Packing group)

EmS-number : 2-13

Marine pollutant : n.a.

AEROSOLS

Air Transport

IATA : 2.1/-/ (class/secondary danger/packing group)

Aerosols, flammable

3: PHYSICAL DESCRIPTION & PROPERTIES

Smell : Characteristic smell

Specific Gravity :

Form : Aerosol

Vapor Pressure : 7 bar/20°C, 11.6 bar/50°C

Solubility in Water : Poor

Flammability Ltd : Extremely flammable

Boiling Point : Range: -48 to -1°C (butane)

Melting Point :

Flashpoint : ca. -80°C (propene)

Flammability : Yes

4: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name

(CAS No)

Content Proportion

: Butane

: 106-97-8

: 50 – 90%

: Propene

: 115-07-1

: Medium

Contents : **H**igh >60% **M**edium 10 – 60% **L**ow 1 – 10% **V**ery Low <1%**PRINT DOCUMENT****BACK TO CONTENTS**

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: 0800 764 766

RAMSET NZ

: 09 444 3510

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N/A

HEALTH EFFECTS: CHRONIC:**FIRST AID******Take a copy of this MSDS to the Doctor****Eyes

Rinse thoroughly with plenty of water for several minutes and call a physician if necessary.

Skin

Rinse thoroughly with plenty of water, remove contaminated clothes, in case of skin irritation call a physician.

Inhaled

Supply person with fresh air and call a physician if necessary. Keep Data Sheet available.

Swallowed

Call doctor immediately – keep Data sheet available.

Advice to DoctorFirst Aid facilitiesToxicity data

No data available, inhalation of vapour may have narcotizing effect.

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Chemical name	content%	OES, MEL, MAK, TRK
Butane	50-90	1000ppm (2400 mg/m ³)

VENTILATION:

Ensure good ventilation. This can be achieved by local suction or general air extraction.

PERSONAL PROTECTION:Eyes

Tight fitting protective goggles with side protection (EN 166)

Hands & Feet

Recommended, protective hand cream recommended. Also protective footwear e.g. safety shoes EN 344.

Respiratory

If ventilation is insufficient to maintain the concentration under the OES, MEL or MAK values, suitable breathing protection should be worn.

Other

Long sleeved protective working garments.

FLAMMABILITY:

Product is extremely flammable. In use may form flammable/explosive vapour-air mixtures.

ENVIRONMENT:

Water hazard class: 1 (slightly hazardous to water)

No data on degradability.

OTHER PRECAUTIONS:**PRINT DOCUMENT****BACK TO CONTENTS**

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7: SAFE HANDLING & STORAGE**STORAGE & TRANSPORT:**

Protect from sunlight and do not expose to temperatures exceeding 50 deg C. Do not store in gangways or stairwells. Do not store with flammable or self-igniting materials. Storage rooms must be well ventilated, keep away from open fire and other ignition sources. Only store products unopened in original packing. Observe special regulations for aerosols. Do not pierce or burn, even after use. Keep out of reach of children.

PACKAGING & LABELLING:

Storage classification according to VCI: 2B

SPILLS & DISPOSALS:

If accidentally released, remove ignition sources, do not smoke, ventilate rooms, avoid inhaling, and avoid contact with eyes. If large amounts leak, try to stop it. For disposal, pay attention to local and national office regulations and dispose of at suitable refuse site. Do not pierce or burn containers even once empty.

OTHER PRECAUTIONS:

Observe directions on label and instructions for use. Keep away from sources of ignition – do not smoke. Pressure increase leads to danger of bursting. Ensure good ventilation. Handle only when appropriate ventilation system is activated. Take precautions against electrostatic charges. Avoid contact with oxidizing and other chemicals: di-nitrogen monoxide, fluorine, hydrogen chloride.

8: FLAMMABILITY

Fire/Explosion hazard

Product is extremely flammable and in use may form flammable/explosive vapour-air mixtures. In case of fire the following can develop gases hazardous to health, decomposition products, danger of explosion by prolonged heating, dangerous vapours heavier than air.

May Decompose Explosively :	Upper Explosion Limit	: 8.5 – 11.7 (propene)
Extinguishing Media : Dry extinguisher, CO2, water jet spray	Lower Explosion Limit	: 1.5 – 2.0 (propene)
	Dust Explosion Limit	:

Other

Fire fighters wear protective respirator with independent air supply. According to size of fire, wear full protection if necessary. Dispose of contaminated extinction water according to official regulations.

HAZARDOUS DECOMPOSITION PRODUCTS:**9: OTHER INFORMATION**

None

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