

# MATERIAL SAFETY DATA SHEET

### 1: Product and company identification

Product	Radtech Radiator Flush		RTRF
		T	
Proper Shipping Name	Radtech Radiator Flush	Hazard Class	n/a
Recommended use	Cleaning rust and sludge in vehicle cooling systems	Packing Group	n/a
Company	Fargo International Ltd	UN No	n/a
Address	71 Adams Drive, Auckland.	Hazchem Code	n/a
	New Zealand	Subsidiary Risk	n/a
Telephone	+64 9 238 2389 [8.00 - 4.30 Mon to Fri]	Poisons Schedule	S6
Fax	+64 9 238 2399		

**Emergency Telephone** +64 21 930 795 (24 hours emergency only)

National Poison Centre (24 hours): 0800 POISON [764 766]

#### 2: Hazard identification

#### **IRRITANT**

Risk Phrases

R36/38 Irritating to eyes and skin.

R52/53 Harmful to aquatic organisms; may cause long term adverse effects in aquatic environment.

#### Safety Phrases

S2 Keep out of reach of children.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28:SUACID After contact with skin, wash immediately with plenty of soap and water.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61 Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

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#### 3: Composition/information on ingredients

Ingredients	Content*	CAS No
Sulphamic Acid	Low	5329-14-6
Proprietary solvents and surfactants	Medium	
Non Hazardous	High	

<sup>\*</sup>Content: High >60%, Medium 10 to 60%, Low 1 to 10%, Very Low <1%

#### 4: First-aid measures

**Ingestion:** Do Not induce vomiting. Rinse mouth thoroughly with water immediately. Give

water to drink. Immediately seek medical assistance.

**Eyes:** Rinse cautiously with warm gently running water for several minutes. Continue

for at least 15mins. Immediately seek medical advice/attention.

**Skin:** Wash contaminated skin with plenty of soap & water. Remove contaminated

clothing and wash before reuse. If irritation occurs seek medical advice.

**Inhalation:** Remove exposed person to fresh air if adverse effects are observed. Allow victim

to assume most comfortable position and keep warm. If breathing laboured and

victim cyanotic (blue), ensure airways are clear. Seek medical attention.

Notes to Physician:

Treat symptomatically as for acids. Consult poisons information centre

FOR FURTHER INFORMATION CONTACT (24 hours)
THE NATIONAL POISON CENTRE: 0800 POISON [764 766]

# 5: Fire-fighting measures

Flash Point: Non-flammable
Auto ignition temperature: Non-flammable
Flammable limits in Air % Non-flammable

by Volume:

**Extinguishing media:** Use foam, C0<sup>2</sup>, Dry Chemical or Foam to extinguish fire. Water can

be used to cool and protect exposed material. Water used on

adjacent fires must be carefully handled if product has spilt.

**Fire fighting instructions:** Recommend using self-contained breathing apparatus.

**Unusual fire and explosion** No

hazards:

None known

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#### 6: Accidental release measures

#### If product is released or spilled:

Personal Protection Equipment must be worn. See Section 8 for details.

Ventilate area if spilled in confined space or poorly ventilated area.

Collect into suitable containers for disposal. Residual liquid can be absorbed on inert material. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

Dispose through licensed disposal company.

#### 7: Handling and storage

**Handling** Slippery when split. Wear protective equipment to prevent skin and eye

contamination and inhalation of vapours. Avoid accidents, clean up

immediately.

**Storage** Store in a cool dry well ventilated place and out of direct sunlight. Store

away from acids, strong oxidising agents and foodstuffs.

#### 8: Exposure controls and personal protection

**Engineering Controls:** General (mechanical) room ventilation is considered satisfactory. If

dealing with high concentrations, use only with adequate ventilation or combination particulate/gas respirator. Maintain below Exposure Limit.

**Eye / Face Protection:** Avoid contact with the skin and eyes, and avoid breathing vapours

and mists. When exposure limits is likely, use personal protective equipment in a combination appropriate to the exposure. Nitrile

gloves, Respirator, Face shield and Safety glasses.

**Body Protection:** When exposure limits is likely, Coverall's and Rubber boots.

**Respiratory Protection:** Use combination particulate/gas respirator if recommended exposure

limit is exceeded.

**Exposure Limits: Acute:** Oral: LD50 in rats is >140mg/kg.

TVL/TWA: 10 mg/m<sub>3</sub> (inspirable dust), STEL: 3 mg/m<sub>3</sub> (respirable

dust) Not normally a factor if product is in liquid state.

# 9: Physical and chemical properties

Appearance	Clear Liquid	Solubility	100% Soluble
Physical State	Liquid	% Volatiles	No data
Odour	Acrid	Vapour Pressure	<0.001mm Hg (1 Atm) @20 <sup>0</sup> C
Specific Gravity	1.2	Vapour Density	No data
рН	4.0	Flash Point	Non-flammable
<b>Boiling Point</b>	110°C	Flammable Limits	Non-flammable

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#### 10: Stability and reactivity

Stability of the substance: Stable under normal conditions of use

**Conditions contributing** 

Avoid storage with strong acid and strong oxidising agents

to instability:

**Incompatibility:** Strong Acids and Oxidising agents

Hazardous

Thermal decomposition - Toxic fumes and Oxides of Sulphur,

**decomposition products:** Ammonia, Oxides of Nitrogen and Oxides of carbon.

**Conditions contributing** 

to hazardous polymerization:

No Data

# 11: Toxicological information

**Ingestion:** Harmful if swallowed. May cause damage to mucous membranes. May

cause burns to mouth, throat and stomach. Ingestion can cause nausea,

abdominal pain and vomiting.

**Inhalation:** Not a normal route of harmful exposure. High concentrations of vapour

can cause irritation of the respiratory tract.

**Skin:** Irritant to skin. Contact with skin may result in irritation with redness,

pain and possible burns

**Eyes:** Irritant to eyes. May result in irritation with redness, pain and possible

tissue damage

**Acute Over-Exposure:** No data

**Chronic Effects:** LD50 = 140 mg/kg in rat.

#### 12: Ecological information

**Ecotoxicity:** Harmful effect on aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

**Degradability:** No information available.

**Accumulation:** Not expected to bioaccumulate.

Prevent product from entering drains, watercourses and sewers.

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#### 13: Disposal considerations

Dispose through licensed disposal company.

#### 14: Transport information

#### Land Transport (New Zealand)

Regulation Name	n/a	Pack Group	n/a
UN Number	n/a	Precaution	n/a
Shipping Name	Radiator Flush	Hazchem Code	n/a
Dangerous Goods Class	n/a	EPG	n/a
Subsidiary Risk	n/a	Special Provision	n/a

#### 15: Regulatory information

HSNO Approval No: Group Standard:

**HSNO Classes:** 

#### 16: Other information

New Zealand National Poison Information Centre (24 hours): 0800 POISON [764 766]

**New Zealand Emergency Services: 111** 

**For General Information** Fargo International Ltd

**contact:** Phone: +64 9 238 2389 [8.00 am to 4.30pm – Mon to Fri]

Fax: +64 9 238 2399 Mob 021-930-795

**24 Hour Emergency Tel No.** Above Mobile

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