

GEMCUTS PTY LTD

Date of Issue 03-08-2020

**SAFETY DATA SHEET
FIRESCOFF**

IMPORTANT NOTICE: This Safety Data Sheet (SDS) is issued by Gemcuts Pty Ltd in accordance with National Occupational Health and Safety Commission guidelines. The information contained in this document must not be added to, deleted, or altered. Gemcuts Pty Ltd will issue a new SDS when there is a change in the product specifications and/or with the National Occupational Health and Safety Commission guidelines/ regulations. Gemcuts Pty Ltd will not accept any responsibility for any changes made to its SDS in content by any other person or organisation.

CLASSIFICATION OF MATERIAL

This material is hazardous according to health criteria of Worksafe Australia

1. IDENTIFICATION OF THE MATERIAL & SUPPLIER

Product	Firescoff
Recommended Use	Flux, fire coat, heat shield, antioxidant surfactant, nano-nucleation
Supplier/Importer	Gemcuts Pty Ltd
ABN	43 780 687 841
Manufacturer	Nventa Inc.
Address	36A Smith Drive, West Ballina NSW 2478
Telephone Number	02 66811686
Facsimile	N/A
Email	admin@gemcuts.com.au
Emergency Telephone	131126 Poisons Information Centre 0427012014

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2. HAZARDS IDENTIFICATION

2.1 Signal Word: WARNING

2.3 Hazards Classification: Hazardous substance. Non-Dangerous Goods

2.2 Hazard Category:

Skin Corrosion: Cat 3

Eye Damage: Cat 3

Acute Toxicity: Cat 3

2.4 Hazard Phrase(s):

H302: Harmful if swallowed

H314: Skin corrosion

H318: Moderate eye damage

2.6 Precautionary Phrase(s)

P234: Keep only in original container

P260: Do not breathe dust

P264: Wash skin thoroughly after handling

P280: Do not eat, drink, or smoke when using this product

P281: Use personal protective equipment as required

P301, P330, P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303, P353: IF ON SKIN (or hair): Remove clothing. Rinse skin with water

P304, P340: IF INHALED: Remove victim to fresh air and keep comfortable

P305, P351, P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P363: Wash contaminated clothing before reuse

P701: DO NOT FREEZE. Recommended storage above 25°C

Emergency Overview: Avoid or have minimal exposure with contact/inhalation with the use of appropriate personal protective gear including air purifying regulators.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Product Description: Clear Liquid. Dries White Ceramic

3.2 Contents

Chemical Name	CAS Number	Proportion %
Phosphoric Acid	7664-38-2	<2

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4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre,

Phone (Australia) 131 126

Inhalation: Remove person to fresh air. Seek medical attention if symptoms persist

Skin Contact: Rinse skin with water. If spilled on clothing, change clothes. Seek medical attention if symptoms persist

Eye Contact: Flush cautiously but thoroughly with water for 15 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth out with water. Remove person to fresh air. Seek medical attention if symptoms persist

Note to Doctor: Effects are both acute and delayed

5. FIRE FIGHTING MEASURES

5.1 Explosion Hazard: Non-flammable liquid

5.2 Fire Fighting Advice: Wear self-contained breathing apparatus for firefighting if necessary

5.3 Suitable Extinguishing Media: Substance is non-combustible. Use any fire-fighting agent appropriate for surrounding material.

5.4 Hazardous Polymerisation: Will not occur

5.5 Special Hazards: Oxides of phosphorous, Sodium oxides. Avoid strong oxidizers.

6. ACCIDENTAL RELEASE MEASURES

Emergency Action: Use appropriate personal protective measures (section 8) and keep area well ventilated. Avoid dust formation. Avoid breathing dust, vapours, mist, or gas.

Evacuate Personnel to safe areas.

Check with local water authority as it may be allowed to be washed into the sewer.

Absorb with paper towel or vermiculite type material.

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7. HANDLING & STORAGE

7.1 Handling Advice: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection.

7.2 Storage Advice: Recommended storage temperature above 25°C. Do NOT FREEZE. Do NOT open container. It is purged with inert gas to prevent premature oxidation of the nano-ceramic catalyst. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Occupational Exposure Limits: National Occupational Exposure Standard (NES), Safe Work Australia (formerly ASCC/NOHSC).

Phosphoric Acid 7664-38-2 TWA 1mg/m³ STEL 3mg/m³

8.2 Engineering Control Measures: Brazing may produce fumes and gasses hazardous to health. Avoid breathing these fumes and gases. Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation and mechanical ventilation or an air purifying respirator.

Emergency eyewash fountains and safety showers should be available in the immediate vicinity of industrial use/handling.

8.3 Personal Protective Equipment:

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, APPROVED AIR RESPIRATOR.

Avoid eye contact by wearing chemical goggles with side-shields or face-shield (AS/NZS 1336) whenever exposed to vapour or mist or if there is a risk of splashing liquid in the eyes. Safety showers with eyewash should be provided in all areas where product is handled.

Protective clothing (gloves, coveralls, boots, etc.) should be worn to prevent skin contact. Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

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Physical State:	Liquid
Colour:	Clear
Odour:	Odourless
Solubility:	Soluble
Density	1.1 – 1.25
Flash Point (°C):	Not flammable
pH	>7 (Basic)
Weight (g)	40-140g
Size (mm)	10mmW x 110H, 20mmW x 140H

10. STABILITY & REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Storage with strong oxidizers. No decomposition if used and stored according to specifications.

Hazardous Reactions: In very rare cases, may react with strong oxidizers, metal hydrides, or alkali metals generating hydrogen gas that could create an explosion hazard.

Incompatible Materials: Avoid strong oxidizing agents.

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11. TOXICOLOGY INFORMATION

Acute toxicity (oral) 7500mg/kg LD50 Rat (estimated)

Water based fluxes have a low order of toxicity

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: No additional information

Eye Contact: No additional information

Skin Contact: No additional information

Inhalation: No additional information

Carcinogenicity: No component of this product present at levels greater than 0.1% is identified as probable, possible, or confirmed human carcinogen.

Reproductive toxicity: No additional information

12. ECOLOGICAL INFORMATION

Toxicity:

Fish LC50 – *Carassius auratus* (goldfish) – 178mg/l – 72h

Invertebrates EC50 – *Daphnia magna* (water flea) – 1400mg/l – 48h

Algae IC50 – *Desmodesmus subspicatus* (green algae) 158 mg/l – 96h

Degradability: Readily degradable in the environment

Bio accumulative potential: No additional information

Other adverse effects: In high concentrations, it is possible that nano-ceramic antioxidant particles may interrupt the take-up of soil-bound nutrients and cause damage to trees or vegetation by root absorption.

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local and state waste authority requirements.

All containers can be recycled

14. TRANSPORT INFORMATION

14.1 **Road and Rail Transport:** Not regulated

14.2 **Marine Transport:** Not regulated

14.3 **Air Transport:** Not regulated

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15. REGULATORY INFORMATION

Australian Dangerous Goods Code, No. 6 [National Road Transport Commission]
Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
ASNZS 1715/16 Respiratory protective devices.
Safe Work Australia
NES

16. OTHER INFORMATION

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Gemcuts Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Gemcuts Pty Ltd at the contact details on page 1.

Gemcuts Pty Ltd responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.