

COILDEFENDER Ice Machine Cleaner SDS

Section 1 - Identification of the Material and Supplier

COILDEFENDER
Unit 2 481-483 Victoria St
Wetherill Park, NSW 2164
Australia

Phone: +61 438882060 (office hours)

Emergency: +61 438882262 (any time)

Chemical nature: Water solution of Orthophosphoric Acid and other ingredients

Trade Name: Coildefender, Ice Machine Cleaner

Product Use: Acidic Liquid Descaler

Product Code: CD001

Creation Date: 1st March 2017

This version issued: 1st March 2017 and is valid for 5 years from this date.

Poisons Information Centre: Phone 13 1126 from anywhere in Australia

Section 2 - Hazards Identification

Statement of Hazardous Nature This product is classified as: C. Corrosive. Hazardous according to the criteria of Safe Work Australia.

- Serious Eye Damage – Category 1;
- Specific Target organ Toxicity – Single Exposure Category 3,
- Skin Corrosion/Irritation – Category 1,

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

Poisons Schedule: S6

ADG Classification: Class 8 : Corrosive Substance

UN Number: UN1805 Phosphoric Acid Solution



GHS Signal word: DANGER

HAZARD STATEMENT

H314: Causes severe burns skin burns and eye damage

H335: May cause respiratory irritation

PREVENTION

P102: Keep out of reach of children.

P260: Do not breathe dust/fume/gas/vapour/spray

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling

P271: Use only outdoors or in a well ventilated area.

P273: Avoid release to the environment

P280: Wear protective gloves, protective clothing and eye or face protection.

RESPONSE

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTRE/Doctor, if you feel unwell and have product container or label at hand.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P363: Wash contaminated clothing before reuse.

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

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STORAGE DISPOSAL

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P390: adsorb spillage to prevent material damage.
P405: Store locked up.
P501: If they cannot be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

Emergency Overview

Physical Description & Colour: Clear green coloured liquid.
Odour: Mild odour.
Major Health Hazards: Causes severe burns , respiratory tract irritant.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc %	TWA (mg/m ³)	STEL (mg/m ³)
Orthophosphoric Acid 85%	7664-38-2	10-60%	2	Peak
Citric Acid	5949-29-1	10-50%	2	Peak
Other non hazardous		to 100%	Not set	Not Set
Water	7732-18-5	to 100%	Not set	Not set

This is a commercial product whose exact ratio of components may vary slightly.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation	If irritation occurs, contact a Poisons Information Centre, or call a Doctor. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen maybe beneficial if administered by trained personnel, preferably on a doctor's advice. In severe cases, symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.
Skin Contact	Seek urgent medical attention. Flush contaminated area with lukewarm, gently flowing water for at least 60 minutes. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this SDS and take their advice). Under running water remove contaminated clothing, shoes and leather goods eg watchbands & belts.. Strong alkali ingredients tend to penetrate the skin and so need longer rinsing.
Eye Contact	Flush eyes with copious quantities of water for at least 15 minutes. Seek immediate medical attention. Take special care if the exposed person is wearing contact lenses.
Ingestion	If product is swallowed or gets in mouth, do NOT induce vomiting; keep at rest, wash mouth with water and give some water to drink. Seek immediate medical attention. Urgent hospital treatment is likely to be needed. Contact Poisons Information Centre.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards:	The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both) fire gases. There is little risk of an explosion from this product if commercial quantities are involved in a fire.
Extinguishing Media:	Not combustible. Use extinguishing media suited to burning materials. Water fog or fine spray is the preferred medium for large fires..
Fire Fighting:	If a significant quantity of this product is involved in a fire, call the fire brigade. There is a little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire.

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Flash point:	N/A
Upper Explosive Limit (UEL):	Does not burn
Lower Explosive Limit (LEL):	Does not burn.
Auto-ignition temperature:	Does not burn
Flammability Class:	Does not burn

Section 6 - Accidental Release Measures

Accidental release:	<p>In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. Wear full protective clothing including eye/face protection. All skin areas should be covered.</p> <p>Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Avoid using sawdust or other combustible material. Any electrical equipment should be non-sparking. Any equipment capable of building an electrostatic charge should be electrically grounded. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.</p>
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Section 7 - Handling and Storage

Handling:	Keep exposure to this product to a minimum and minimise the quantities kept in work area. Only use in well ventilated areas. Wash thoroughly after handling. Keep container closed. Handle containers with care. Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.
Storage:	This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store in a cool, well ventilated area, and make sure that surrounding electrical devices and switches are suitable. Check containers periodically for leaks. Containers should be kept closed in order to minimise contamination and possible evaporation. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)
Orthophosphoric Acid 85%		
Citric Acid		

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation:	This product should only be used in a well ventilated area. If natural ventilation is inadequate use of a fan is suggested.
Eye Protection:	Eye protection such as splash resistant goggles is recommended when this product is being used. All surrounding skin must be covered. Emergency eye wash facilities must be available in close proximity where the product is being used.
Skin Protection:	You should avoid contact even with mild skin irritants. Therefore you should wear suitable impermeable elbow-length gloves, overalls, hair covering and facial protection when handling this product. Longer term protection: Nitrile rubber gloves Incidental contact/Splash protection: PVC or neoprene rubber gloves
Protective Material Types:	We suggest that protective clothing be made from the following materials: rubber, Viton, nitrile. Safety deluge showers.

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COILDEFENDER Ice Machine Cleaner SDS

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Section 9 - Physical and Chemical Properties

Physical Description & colour:	Clear, green coloured liquid.
Odour:	Mild odour.
Boiling Point:	Not allocated
Freezing / Melting Point:	No specific data. Liquid at normal temperatures.
Volatiles:	Water component
Vapour Pressure:	Not allocated
pH	< 1.5
Vapour Density:	Not available.
Specific Gravity:	1.10 +/- 0.01/lit
Water Solubility:	Soluble
Evaporation Rate:	No data.
Coeff Oil/water Distribution:	No data
Auto-ignition temp:	Not available

Section 10 - Stability and Reactivity

Reactivity:	This product is a strong acid. Most strong alkalis and bases react with inorganic and organic acids to form salts. They can also react with some metals liberating hydrogen gas. These reactions may be rapid and sometimes liberate heat.
Conditions to Avoid:	Excessive heat and direct sunlight
Incompatibilities:	Alkalis and metals
Fire Decomposition:	Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire.. This will only occur after heating to dryness. Combustion forms carbon dioxide and if incomplete, carbon monoxide which can cause headache, weakness, nausea, dizziness, confusion, unconsciousness followed by coma and death.
Polymerisation:	This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Long Term Effects

Target Organs: There is no data to hand indicating any particular target organs.

Potential Health Effects

Acute Effects

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely, however, this product is very corrosive to the gastrointestinal tract. Capable of causing severe burns with deep ulceration, and can penetrate to deeper layers of skin resulting in third degree burns. Corrosion will continue until product is removed or neutralised.

Eye Contact:

Short Term Exposure: This product is very corrosive to the eyes. It will quickly cause severe pain, and corrosion of the eye and surrounding facial tissues. Unless exposure is immediately treated, permanent blindness and facial scarring will occur.

Skin Contact:

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Short Term Exposure: This product is corrosive to the skin. Capable of causing severe burns with deep ulceration, and can penetrate to deeper layers of skin resulting in third degree burns. Corrosion will continue until product is removed or neutralised. Severity depends on concentration and duration of exposure. Burns may not be immediately painful, the onset of pain may be minute to hours.

Inhalation:

Short Term Exposure: This product is irritating to the respiratory tract. Exposure to large concentrations over an extended period of time will result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.

Section 12 - Ecological Information

Salts, acids and bases are typically diluted and neutralised when released to the environment in small quantities. However, until diluted or neutralised it will kill all aquatic organisms it contacts due to extreme pH.

Section 13 - Disposal Considerations

Disposal: Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Recommend that the containers be neutralised in a controlled manner before disposal.

Section 14 - Transport Information

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

UN Number: 1805 Phosphoric Acid Solution
Hazchem Code: 2R
Dangerous Goods Class: 8 Corrosive Substance
Packaging Group: III
Marine Pollutant: Yes

Section 15 – Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.
The following ingredients :Orthophosphoric Acid 85% and Citric Acid are mentioned in the SUSMP.

Poisons Schedule : S6

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)

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R-Phrase Risk Phrase

SUSMP Standard for the Uniform Scheduling of Medicines & Poisons

UN Number United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document *"Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice"* (February 2016)

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