

MATERIAL SAFETY DATA SHEET



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1. PRODUCT AND COMPANY INFORMATION

PRODUCT CODE:

MANUFACTURER

CASWELL AUSTRALIA P/L
25 BIRCH COURT
WYNDHAM VALE
VICTORIA 3024
AUSTRALIA

EMERGENCY NUMBER **000**

OFFICE NUMBER 03 9741 7103

IMPORTED FROM

CASWELL INC
7696 ROUTE 31
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USA

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2. HAZARDS & IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

HAZARD DESIGNATION

"C" CORROSIVE

IMMEDIATE CONCERNS

CORROSIVE , WILL CAUSE EYE BURNS AND TISSUE DAMAGE.

CAN ALSO CAUSE SKIN AND RESPIRATORY TRACT IRRITATION/ BURNING.

POTENTIAL HEALTH EFFECTS

EYES: CAN CAUSE SEVERE EYE IRRITATION

SKIN: PROLONGED CONTACT CAN CAUSE SKIN IRRITATION

SKIN ABSORPTION: NONE EXPECTED

INGESTION: HARMFUL IF SWALLOWED, MAY CAUSE VOMITING

INHALATION IRRITATING TO THE NOSE, THROAT AND RESPIRATORY TRACT,

SIGNS & SYMPTOMS OF OVEREXPOSURE**EYES:** CAUSES SEVERE EYE IRRITATION**SKIN:** PROLONGED CONTACT CAN CAUSE SKIN IRRITATION**SKIN ABSORPTION:** NONE EXPECTED**INGESTION:** HARMFUL IF SWALLOWED, MAY CAUSE VOMITING**INHALATION** IRRITATING TO THE NOSE, THROAT AND RESPIRATORY TRACT, PROLONGED OR EXCESSIVE INHALATION MAY CAUSE RESPIRATORY TRACT IRRITATION.**ROUTES OF ENTRY:** INGESTION. SKIN OR EYE CONTACT**CARCINOGENICITY:** NONE**3. HAZARDS & IDENTIFICATION**

CHEMICAL NAME	Wt. %	CAS	EINECS/CLASSIFICATION
PHOSPHORIC ACID	2.0	007664-38-2	231-633-2
SELENIOS ACID	<3.5	7783-00-8	R36/38
COPPER	<3.0	07440-50-8	231-159-6
NITRIC ACID	<2.0	007697-37-2	231-714-2
WATER	89.5	007732-18-5	231-791-2
R EXPLANATION IN SECTION 16			

4. FIRST AID MEASURES**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately**SKIN:** Immediately flush skin with plenty of water. Remove clothing, get medical attention immediately. Remove clothing and wash separately before reuse.**INGESTION:** If swallowed, induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately**INHALATION:** Immediately remove patient to fresh air. If breathing has stopped give artificial respiration. Use oxygen as required, provided a qualified operator is available. Do not give epinephrine [adrenalin]. Get medical attention immediately**5. FIRE FIGHTING MEASURES****FLAMMABLE CLASS:** N.A**EXTINGUISHING MEDIA:** WATER SPRAY, DRY CHEMICAL CO2 OR ALCOHOL FOAM.. DO NOT USE DIRECT WATER STREAM.**HAZARDOUS COMBUSTION PRODUCTS.** MAY PRODUCE TOXIC SELENIOS FUMES.**FIREFIGHTING PROCEDURES:** AS IN ANY FIRE, WEAR SELF CONTAINED BREATHING APPARATUS PRESSURE DEMAND AND FULL PROTECTIVE GEAR.

HAZARDOUS DECOMPOSITION PRODUCTS. REACTIONS WITH ORGANICS AND STRONG REDUCING AGENTS CAN PRODUCE VOLATILE ORGANOSELENIDES OR HYDROGEN SELENIDE.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapours, have been removed thoroughly wet vacuum the area.

Do not flush to sewer. If area of spill is porous, remove as much contaminated earth, gravel etc., as necessary and place in closed containers for removal.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep in closed container in a dry, well ventilated area away from incompatible materials. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapours. Always obey hazard warnings on container, as if they were full.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

HAZARDOUS COMPONENTS

CHEMICAL NAME		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SUPPLIER OEL	
		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
PHOSPHERIC ACID	TWA	NL	1	NL	1	NL	NL
	SEL	NL	3	NL	3	NL	NL
SELENIOS ACID	TWA	0.04	0.2		0.2		
NITRIC ACID	TWA	2	5	2	5.2	NL	NL
	SEL	4	10	4	10	NL	NL

FOOTNOTE:- NL = NOT LISTED

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: WEAR SAFETY GLASSES WITH SIDE SHIELDS, OR GOGGLES, AND A FACE SHIELD

SKIN: WHERE SPLASHING IS POSSIBLE, FULL CHEMICAL RESISTANT PROTECTIVE CLOTHING [eg ACID SUIT] AND BOOTS ARE REQUIRED

RESPIRATORY: Approved air purifying respirator with an organic vapour cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are unknown, or any other circumstances where air purifying respirators may not provide adequate protection.

OTHER USE PRECAUTIONS:

Facilities using or storing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: *LIQUID*

CHEMICAL NAME	FLASH POINT	BOILING POINT deg C	FREEZING POINT deg C	SOLUBILITY IN WATER	SPECIFIC GRAVITY
PHOSPHERIC ACID		158	42	EASILY SOLUBLE IN WATER	1.68
SELENIOS ACID			Decomposes at 70	EASILY SOLUBLE IN WATER	3

APPEARANCE: LIGHT BLUE SOLUTION

pH: 0.72

VAPOUR PRESSURE: 20

VAPOUR DENSITY: APPROX EQUAL TO WATER

BOILING POINT: 100 deg C

EVAPORATION RATE: 1

SOLUBILITY IN WATER: *SOLUBLE*

SPECIFIC GRAVITY: 1.049

10. STABILITY AND REACTIVITY

STABLE: *YES*

HAZARDOUS POLYMERIZATION: *NO*

INCOMPATIBLE MATERIALS: *CYANIDES, ORGANIC SOLVENTS, STRONG REDUCING AGENTS*

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: *NONE KNOWN*

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Consult appropriate local authorities and regulations for disposal. Empty containers are subject to same regulations.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORT

PROPER SHIPPING NAME: *CORROSIVE LIQUID, NOS*
TECHNICAL NAME: *PHOSPHERIC ACID, SELENIOUS ACID*
PRIMARY HAZARD CLASS / DIVISION: 8
UN NUMBER: 1760
PACKING GROUP: II

15. REGULATORY INFORMATION

FIRE: NO
PRESSURE GENERATING: NO
REACTIVITY: NO
ACUTE: NO
CHRONIC: NO

CHEMICAL NAME	Wt.%	CAS
PHOSPHERIC ACID	2	007664-38-2
SELENIOUS ACID	<3	007783-00-8
NITRIC ACID	<2	007697-37-2

16. OTHER INFORMATION

APPROVED BY PAUL DAVIES **POSITION** CEO

REVISION SUMMARY:

FORMAT CHANGE

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