

# Pool Pro Solution #2 pH Test (Part of Test Kit Pool Pro 4 in 1 Test Kit) Pool Pro Solution Phenol Red

POPS Group (The POPS Group Pty Ltd as Trustee for The Pool Shops Trust)	Chemwatch Hazard Alert Code: 1
Chemwatch: 88-0803	Issue Date: 05/12/2022
Version No: 5.1	Print Date: 05/12/2022
Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements	L.GHS.AUS.EN.E

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### **Product Identifier**

Product name	Pool Pro Solution #2 pH Test (Part of Test Kit Pool Pro 4 in 1 Test Kit) Pool Pro Solution Phenol Red
Chemical Name	Not Applicable
Synonyms	Blue Devil Solution Phenol Red (Part of Test Kit – 2 in 1 Test Kit)
Chemical formula	Not Applicable
Other means of identification	Not Available

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Testing of Pools and Spas.
	Use according to manufacturer's directions

#### Details of the manufacturer or supplier of the safety data sheet

Registered company name	POPS Group (The POPS Group Pty Ltd as Trustee for The Pool Shops Trust)
Address	10-12 Cairns Street Loganholme QLD 4129 Australia
Telephone	+61 7 3209 7884
Fax	+61 7 3209 8635
Website	http://www.poolpro.com.au/
Email	office@poolpro.com.au

	Emergency	telephone	number
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Association / Organisation	ІХОМ
Emergency telephone numbers	+61 3 9663 2130 (International) (24 hours)
Other emergency telephone numbers	+61 1800 033 111

#### **SECTION 2 Hazards identification**

Classification of the substance or mixture		
Poisons Schedule	Not Applicable	
Classification <sup>[1]</sup>	Serious Eye Damage/Eye Irritation Category 2B	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Label elements		
Hazard pictogram(s)	Not Applicable	
Signal word Warning		
Hazard statement(s)		
H320	Causes eye irritation.	
Precautionary statement(s) Prevention		
P264	Wash all exposed external body areas thoroughly after handling.	

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

 P337+P313
 If eye irritation persists: Get medical advice/attention.

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

Not Applicable

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight] Name	
34487-61-1	<0.1 <u>phenol red, sodium salt</u>	
7732-18-5	>98 water	
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

#### **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin or hair contact occurs: ► Flush skin and hair with running water (and soap if available). ► Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 Firefighting measures**

# Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

# Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

Advice for firefighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>	
HAZCHEM	Not Applicable	

### **SECTION 6** Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Continued...

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# **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Neutralise/decontaminate residue (see Section 13 for specific agent).</li> <li>Collider solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage** . .

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Precautions for safe handling	
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

#### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>15ml.</li> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	None known

# **SECTION 8 Exposure controls / personal protection**

Control parameters				
Occupational Exposure Limits (O	DEL)			
INGREDIENT DATA				
Not Available				
Emergency Limits				
Ingredient	TEEL-1	TEEL-2		TEEL-3
phenol red, sodium salt	12 mg/m3	130 mg/m3		790 mg/m3
Ingradient			Povisod IDI H	
ingredient	Original IDEN		Revised IDLIT	
phenol red, sodium salt	Not Available		Not Available	
water	Not Available		Not Available	
Occupational Exposure Banding				
Ingredient	Occupational Exposure Band Rating		Occupational Expo	sure Band Limit
phenol red, sodium salt	E		≤ 0.01 mg/m³	

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Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemica adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), range of exposure concentrations that are expected to protect worker health.	al's potency and the which corresponds to a
MATERIAL DATA Exposure controls		
	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed estimation be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventil "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed propertiventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circo overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ve or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, velocities" of fresh circulating air required to effectively remove the contaminant. Type of Contaminant:	engineering controls can of protection. lation that strategically y. The design of a cumstances. If risk of intilation in warehouse determine the "capture Air Speed:

	Process controls which involve changing the way a job activity Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilation ventilation system must match the particular process and che Employers may need to use multiple types of controls to prev General exhaust is adequate under normal operating conditic overexposure exists, wear approved respirator. Correct fit is e or closed storage areas. Air contaminants generated in the w velocities" of fresh circulating air required to effectively remov	y or process is done to reduce the risk. selected hazard "physically" away from the worker and ven a can remove or dilute an air contaminant if designed proper mical or contaminant in use. ent employee overexposure. ons. Local exhaust ventilation may be required in specific cir essential to obtain adequate protection. Provide adequate v orkplace possess varying "escape" velocities which, in turn re the contaminant.	tilation that strategically rly. The design of a rcumstances. If risk of rentilation in warehouse , determine the "capture
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (in	n still air).	0.25-0.5 m/s (50-100 f/min)
Appropriate engineering	aerosols, fumes from pouring operations, intermittent conta drift, plating acid fumes, pickling (released at low velocity in	iner filling, low speed conveyer transfers, welding, spray to zone of active generation)	0.5-1 m/s (100-200 f/min.)
controls	direct spray, spray painting in shallow booths, drum filling, o generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-500 f/min.)
	grinding, abrasive blasting, tumbling, high speed wheel gen very high rapid air motion).	nerated dusts (released at high initial velocity into zone of	2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion 4: Small hood-local control only		
	Simple theory shows that air velocity falls rapidly with distance with the square of distance from the extraction point (in simple accordingly, after reference to distance from the contaminatin 1-2 m/s (200-400 f/min) for extraction of solvents generated ir producing performance deficits within the extraction apparatu more when extraction systems are installed or used.	e away from the opening of a simple extraction pipe. Veloci e cases). Therefore the air speed at the extraction point sho g source. The air velocity at the extraction fan, for example n a tank 2 meters distant from the extraction point. Other mo s, make it essential that theoretical air velocities are multipl	ity generally decreases build be adjusted, , should be a minimum of echanical considerations, ied by factors of 10 or
Personal protection			
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact let the wearing of lenses or restrictions on use, should be cru and adsorption for the class of chemicals in use and an a their removal and suitable equipment should be readily a remove contact lens as soon as practicable. Lens should a clean environment only after workers have washed har national equivalent]</li> </ul>	enses may absorb and concentrate irritants. A written policy eated for each workplace or task. This should include a revi uccount of injury experience. Medical and first-aid personnel vailable. In the event of chemical exposure, begin eye irriga be removed at the first signs of eye redness or irritation - le ids thoroughly. [CDC NIOSH Current Intelligence Bulletin 56	y document, describing iew of lens absorption I should be trained in attion immediately and ens should be removed in 9], [AS/NZS 1336 or
Skin protection	See Hand protection below		
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>		
Body protection	See Other protection below		
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>		

#### Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

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Material

CPI

#### **Respiratory protection**

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
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BUTYL	А
NEOPRENE	A
VITON	А
NATURAL RUBBER	С
PVA	С

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

up to 10	1000	-AUS / Class1 P2	-
up to 50	1000	-	-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	-2 P2
up to 100	10000	-	-3 P2
100+			Airline**

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

#### **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Clear red liquid with no odour; miscible with water.	Red	
Physical state	Liquid	Relative density (Water = 1)	1.0
Odour	No Odour	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	5-8	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	0	Viscosity (cSt)	0.89 cPs @ 25C
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	1	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2.3	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	1.73	VOC g/L	Not Available

#### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

#### Information on toxicological effects

Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

	Ree	d
Eye	Limited evidence exists, or practical experience sugger is expected to produce significant ocular lesions which animals. Repeated or prolonged eye contact may caus (conjunctivitis): temporary impairment of vision and/or i	sts, that the material may cause eye irritation in a substantial number of individuals and, are present twenty-four hours or more after instillation into the eye(s) of experimental se inflammation characterised by temporary redness (similar to windburn) of the conjunc other transient eye damage/ulceration may occur.
Chronic	Long-term exposure to the product is not thought to pro- models); nevertheless exposure by all routes should be	oduce chronic effects adverse to health (as classified by EC Directives using animal e minimised as a matter of course.
Pool Pro Solution #2 pH Test	τοχιςιτγ	IRRITATION
I Test Kit) Pool Pro 4 In Phenol Red	Not Available	Not Available
nhenol red sodium salt	ΤΟΧΙΟΙΤΥ	IRRITATION
phenorrea, soulain sait	Not Available	Not Available
water		IRRITATION Not Available
Legend:	1. Value obtained from Europe ECHA Registered Subs	stances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise
	specified data extracted from RTECS - Register of Tox	ic Effect of chemical Substances
HENOL RED, SODIUM SALT	Exposure to the material may result in a possible risk of raised, generally, on the basis of appropriate studies with similar materials using mamm vitro mutagenicity studies. For phenolphthalein Phenolphthalein is absorbed in the small bowel and is As it passes through the small intestine, it is partially deproduction and cause oxidative damage <i>in vitro</i> . Phenol Phenolphthalein induced micronucleated erythrocytes spermatozoa were induced in male mice but not male lymphomas induced by phenolphthalein in female hete Phenolphthalein induced chromosomal aberrations, <i>Hy</i> resistant mutations or sister chromatid exchange in cult The main target organ for the toxic effects of phenolph chronic constipation and laxative dependence, loss of 1° cathartic colon <sup>1</sup> , i.e. a poorly functioning colon with att contents. The clinical condition, which resembles chror wall and loss of the normal mucosal pattern of the terr Anecdotal cases of long-term use or overdose of phenolimbalance (hypokalaemia, hypocalcaemia and/or meta steatorrhoea, anorexia, weight loss, polydipsia, polyuri muscle and central nervous system disturbances are thouse of phenolphthalein is often manifested as cutar erythematous macules that may progress to vesicles a subsequent dose of phenolphthalein and generally lear melanin-containing dermal macrophages have been for severe lesions characterised as bullous erythema mult in one case report, toxic epidermal necrolysis A review of 204 cases of phenolphthalein ingestion in of a 30-month period indicated that ingestion of < 1 g was resulting fluid loss	f irreversible effects. The material may produce mutagenic effects in man. This concer alian somatic cells in vivo. Such findings are often supported by positive results from in conjugated in the liver to form phenolphthalein glucuronide, which is eliminated in the l econjugated and reabsorbed. Phenolphthalein and its glucuronide enhance oxygen rat sphthalein has also been shown to have low oestrogenic activity in some model syster in mice given multiple but not single treatments by gavage or in feed. Abnormal rats treated with phenolphthalein in the feed for 13 weeks. The malignant thymic rozygous <i>p53</i> -deficient mice showed loss of the normal <i>p53</i> allele. <i>Jrt</i> gene mutations and morphological transformation but not aneuploidy or ouabain- tured mammalian cells. It did not induce gene mutations in bacteria. thalein is reported to be the intestine. Indiscriminate use of phenolphthalein results in normal bowel function and bowel irritation. Habitual use for several years may cause a pric dilatation, especially on the right side, resulting in extensive retention of the bowel ic ulcerative colitis both radiologically and pathologically, involves thinning of the intes inal ileum . olphthalein have been associated with abdominal pain, diarrhoea, vomiting, electrolyte ibolic acidosis or alkalosis), dehydration, malabsorption, protein-losing gastroenteropai a, cardiac arrhythmia, muscle weakness, prostration and histopathological lesions . Kit hought to be due to electrolyte imbalance. Loss of intestinal sodium and water stimulat ronism, leading to sodium conservation and potasium loss by the kidney. The sometimes associated with habdomyolysis. In associated with gastrointestinal bleeding, iron-deficient anaemia, acute pancreatitis including fulminant hepatic failure and disseminated intravascular coagulation eous inflammatory reactions or fixed drug eruptions, i.e. solitary or multiple, well-defin ind/or bullae. These lesions characteristically recur in the same location with each ve residual hyperpigmentation that

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	With respect to the carcinogenicity study, the US FDA h	as stated that " the systemic exposure	es in rodents were approximately 40 to 70 fold and	
	60 to 100 fold the human exposure for rats and mice, respectively			
	Phenolphthalein is <i>reasonably anticipated to be a human carcinogen</i> based on sufficient evidence of increased incidence of malignant and/or combination of malignant and benign tumors in multiple tissue sites and in multiple species (IARC 2000). In a two-year B6C3F1 mouse carcinogenicity study, NTP (1996) concluded that phenolphthalein, administered in feed, induced significant increases in the incidence of histiocytic sarcoma and lymphomas of thymic origin in males and females and malignant lymphoma (all types) and benign ovarian sex cord stromal tumors in females. In the corresponding Fischer 344 rat dietary carcinogenicity study, phenolphthalein induced significant increases in the incidence of benign pheochromocytoma of the adrenal medulla in males and females and renal tubule adenoma in males (NTP 1996). In a 6-month dietary study with female heterozygous <i>p53</i> -deficient transgenic mice, phenolphthalein induced a significant increase in the incidence of malignant lymphoma of thymic origin .			
	Phenolphthalein has been identified as a multisite carcinogen in rodents, but the molecular species responsible for the carcinogenicity is not known. A catechol metabolite hydroxyphenolphthalein , was recently identified and may be the molecular species responsible for at least part of the toxicity/carcinogenicity The metabolite is an extremely potent mixed-type inhibitor of the O-methylation of the catechol estrogens. It has been suggested that chronic administration of phenolphthalein may enhance metabolic redox cycling of both the metabolite and the catechol estrogens and this, in turn, may contribute to hydroxyphenolphthalein-induced tumourigenesis. Toxicol Appl. Pharmacol Vol 162(2) pp 124-131 2000			
	Although negative for mutagenicity and DNA damage in bacteria, phenolphthalein exhibits genetic activity in several in vitro and in vivo mammalian assays. Phenolphthalein was positive for the induction of chromosomal aberrations in cultured Chinese hamster ovary cells in the presence of metabolic activation and induced hprt gene mutations, chromosomal aberrations, and morphological transformation in Syrian hamster embryo cells. Phenolphthalein was also positive for the induction of micronucleated erythrocytes in mice following multiple, but not single, treatments administered by gavage or dosed feed. Phenolphthalein also induced micronuclei in female heterozygous p53-deficient transgenic mice exposed via dosed feed for 26 weeks. Phenolphthalein was negative for Na/K ATPase gene mutations and aneuploidy in Syrian hamster embryo cells			
PHENOL RED, SODIUM SALT & WATER	No significant acute toxicological data identified in literature search.			
Acute Toxicity	×	Carcinogenicity	×	
Skin Irritation/Corrosion	×	Reproductivity	×	
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×	
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×	
Mutagenicity	×	Aspiration Hazard	×	
		Legend: 🗙 – Data either no	t available or does not fill the criteria for classification	

Data exiliable to make classification

# **SECTION 12 Ecological information**

# Toxicity

Pool Pro Solution #2 pH Test	Endpoint	Test Duration (hr)	Species	Value	Source
(Part of Test Kit Pool Pro 4 In 1 Test Kit) Pool Pro Solution Phenol Red	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
phenol red, sodium salt	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
water	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Ja - Bioconcentration Data 8. Vendor Data		US EPA, METI (Japan)		

### DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
water	LOW	LOW	
Bioaccumulative potential			
Ingredient	Bioaccumulation		
	No Data available for all ingredients		
Mobility in soil			
Ingredient	Mobility		
	No Data available for all ingredients		

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Red

# **SECTION 13 Disposal considerations**

Product / Packaging disposal	<ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible.</li> <li>Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> <li>Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).</li> </ul>
	<ul> <li>Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).</li> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>

# **SECTION 14 Transport information**

#### . . . . .

Labels Required		
Marine Pollutant	NO	
HAZCHEM	Not Applicable	

# Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

#### Not Applicable

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
phenol red, sodium salt	Not Available
water	Not Available

#### Transport in bulk in accordance with the ICG Code

i roudet name omp	рТуре
phenol red, sodium salt Not A	r Available
water Not A	i Available

# **SECTION 15 Regulatory information**

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

### phenol red, sodium salt is found on the following regulatory lists Not Applicable

# water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (phenol red, sodium salt)
Canada - DSL	Yes
Canada - NDSL	No (phenol red, sodium salt; water)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (phenol red, sodium salt)
Vietnam - NCI	Yes
Russia - FBEPH	No (phenol red, sodium salt)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

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Pool Pro Solution #2 pH Test (Part of Test Kit Pool Pro 4 in 1 Test Kit) Pool Pro Solution Phenol
Red

Revision Date	05/12/2022
Initial Date	28/11/2017

#### SDS Version Summary

Version	Date of Update	Sections Updated
4.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
5.1	05/12/2022	Appearance, Classification, Personal Protection (hands/feet), Name

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors **BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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