

# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

## 1.1 Product identifier

## Product name HAZEN (APHA) COLOUR REFERENCE STANDARDS

**Synonyms** CC2308, CC0918, CC0919

## 1.2 Uses and uses advised against

Uses LABORATORY APPLICATIONS • LABORATORY REAGENT • RESEARCH AND DEVELOPMENT

## 1.3 Details of the supplier of the product

Supplier name	ROWE SCIENTIFIC PTY LTD
Address	11 Challenge Blvd, Wangara, WA, 6065, AUSTRALIA
Telephone	(08) 9302 1911
Fax	(08) 9302 1905
Email	rowewa@rowe.com.au
Website	http://www.rowe.com.au

(08) 9302 1911

## 1.4 Emergency telephone numbers

Emergency

## 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

## 2.2 GHS Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

## 2.3 Other hazards

No information provided.

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

## 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
HYDROCHLORIC ACID	7647-01-0	231-595-7	<1%
COBALT (II) CHLORIDE HEXAHYDRATE	7791-13-1	231-589-4	<0.1%
POTASSIUM CHLOROPLATINATE	16921-30-5	240-979-3	<0.1%
WATER	7732-18-5	231-791-2	Remainder

## 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

Еуе	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

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swallowed, do not induce vomiting.

**First aid facilities** Eye wash facilities and safety shower should be available.

#### 4.2 Most important symptoms and effects, both acute and delayed

May cause irritation to the eyes, skin and respiratory system.

#### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases if strongly heated.

#### 5.3 Advice for firefighters

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

#### 5.4 Hazchem code

None allocated.

## 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

#### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

#### 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

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

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

## 7.3 Specific end uses

No information provided.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 Control parameters

## Exposure standards

Ingredient	Reference	TWA		STEL	
	Kelefence		mg/m³	ppm	mg/m³
Cobalt (as Co)	SWA [AUS]		0.05		
Cobalt (metal and inorganic)	SWA [Proposed]		0.02		
Hydrogen chloride	SWA [Proposed]	2 (Peak)	2.98 (Peak)		
Hydrogen chloride (Hydrochloric acid)	SWA [AUS]	5 (Peak)	7.5 (Peak)		

## **Biological limits**

Ingredient	Reference	Determinant	Sampling Time	BEI
COBALT (II) CHLORIDE HEXAHYDRATE	ACGIH BEI	Cobalt in urine	End of shift at end of workweek	15 µg/L

## 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

#### PPE

Eye / Face	Wear splash-proof goggles.
Hands	Wear PVC or rubber gloves.
Body	When using large quantities or where heavy contamination is likely, wear coveralls. In a laboratory situation, wear a laboratory coat.
Respiratory	Not required under normal conditions of use.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Appearance	LIQUID
Odour	CHARACTERISTIC ODOUR
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	100°C (Approximately)
Melting point	< 0°C
Evaporation rate	AS FOR WATER
рН	ACIDIC
Vapour density	NOT AVAILABLE
Relative density	1 (Approximately)
Solubility (water)	SOLUBLE
Vapour pressure	18 mm Hg @ 20°C
Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE

# **10. STABILITY AND REACTIVITY**



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## 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

#### 10.2 Chemical stability

Stable under recommended conditions of storage.

## 10.3 Possibility of hazardous reactions

Polymerization will not occur.

## 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

#### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), alkalis (e.g. sodium hydroxide) and metals.

## 10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

## **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

### Information available for the ingredients:

Ingredient		Oral LD50	Dermal LD50	Inhalation LC50
HYDROCHLORIC ACID		2210 mg/kg (rat)		1108 ppm/1hr (human - respiratory irritation)
COBALT (II) CHLOR	IDE HEXAHYDRATE	766 mg/kg (rat)	> 2000 mg/kg (rat)	
POTASSIUM CHLOF	ROPLATINATE	195 mg/kg (rat)		
Skin	Contact may result in irrit	ation, redness, rash and de	ermatitis. May result in burns	with prolonged contact.
Eye	Contact may result in irritation, lacrimation, pain and redness. May result in burns with prolonged contact.			s with prolonged contact.
Sensitisation	Not classified as causing skin or respiratory sensitisation.			
Mutagenicity	Not classified as a mutagen.			
Carcinogenicity	Cobalt and cobalt compounds are classified as possibly carcinogenic to humans (IARC Group 2B).			
Reproductive	Not classified as a reproc	ductive toxin.		
STOT - single exposure	Over exposure may resu	It in irritation of the nose an	d throat, coughing, dizziness	s, drowsiness and headache.
STOT - repeated exposure	Not classified as causing with single exposure.	g organ damage from repe	eated exposure. Adverse eff	ects are generally associate
Aspiration	Not classified as causing	aspiration.		

## **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

No information provided.

### 12.2 Persistence and degradability

No information provided.

## 12.3 Bioaccumulative potential

No information provided.

### 12.4 Mobility in soil

No information provided.

#### 12.5 Other adverse effects

Avoid contamination of drains and waterways.

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## **13. DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

Waste disposal	For small amounts (as determined by risk assessment or similar): Wearing the protective equipment detailed
	above, neutralise to pH 6-8 by SLOW addition to a saturated sodium bicarbonate solution or similar basic
solution. Dilute with excess water and flush to drain	solution. Dilute with excess water and flush to drain. Waste disposal should only be undertaken in a well
	ventilated area. For larger amounts: Dispose in accordance with local regulations.

**Legislation** Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

### NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

#### 14.5 Environmental hazards

No information provided.

#### 14.6 Special precautions for user

Hazchem code None allocated.

## **15. REGULATORY INFORMATION**

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

Poison scheduleClassified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).ClassificationsSafe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and<br/>Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals) All components are listed on AllC, or are exempt.

## **16. OTHER INFORMATION**

Additional information ACIDS: When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small volume of acid to a large volume of water, NEVER the reverse.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.



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HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations	ACGIH	American Conference of Governmental Industrial Hygienists			
	CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds			
	CNS	Central Nervous System			
	EC No.	EC No - European Community Number			
	EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)			
	GHS	Globally Harmonized System			
	GTEPG	Group Text Emergency Procedure Guide			
	IARC	International Agency for Research on Cancer			
	LC50	Lethal Concentration, 50% / Median Lethal Concentration			
	LD50	Lethal Dose, 50% / Median Lethal Dose			
	mg/m³	Milligrams per Cubic Metre			
	OEL	Occupational Exposure Limit			
	рН	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).			
	ppm	Parts Per Million			
	STEL	Short-Term Exposure Limit			
	STOT-RE	Specific target organ toxicity (repeated exposure)			
	STOT-SE	Specific target organ toxicity (single exposure)			
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons			
	SWA	Safe Work Australia			
	TLV	Threshold Limit Value			
	TWA	Time Weighted Average			
Report status	This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').				
	manufacturer, the current sta at the time o	on information concerning the product which has been provided to RMT by the , importer or supplier or obtained from third party sources and is believed to represent ate of knowledge as to the appropriate safety and handling precautions for the product f issue. Further clarification regarding any aspect of the product should be obtained he manufacturer, importer or supplier.			
	not provide a no liability for	as taken all due care to include accurate and up-to-date information in this SDS, it does ny warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts r any loss, injury or damage (including consequential loss) which may be suffered or ny person as a consequence of their reliance on the information contained in this SDS.			
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