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Infosafe No™ 3CHOU RE-ISSUED by AMBERSCI Issue Date : January 2021

Product Name KOVAC'S REAGENT

Classified as hazardous

### 1. Identification

**GHS Product** 

KOVAC'S REAGENT

**Identifier** 

KOVC **Product Code** 

**Company Name** AMBER SCIENTIFIC PTY LTD

24 - 28 Stratton Drive Traralgon Address

Victoria 3844 Australia

Telephone/Fax

Number

Tel: (03) 5176 2855

CHEMCALL (24 hours): 1800 127 406 (Australia) / +64-4-917-98888 (International)

number Recommended use of

**Emergency phone** 

Used in hospital and pathology laboratories only.

the chemical and restrictions on use Other Information

Amber Scientific Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Amber Scientific Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Amber Scientific Pty Ltd is limited to the replacement of supply of equivalent goods

or payment of the cost of replacing the goods or acquiring equivalent goods.

### 2. Hazard Identification

### GHS classification of

the

### substance/mixture

This product is classified as HAZARDOUS according to Approved Criteria for Classifying Hazardous Substances [NOSHC:1008] and/or list of Designated Hazardous Substances [NOHSC:10005] and the Hazardous Chemical Information System [HCIS] Worksafe Australia May 2014. DANGEROUS GOOD: Dangerous good classification according to the Australian Dangerous Goods Code.

Flammable Liquids: Category 3 Corrosive to Metals: Category 1 Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

Acute Toxicity - Inhalation: Category 4

Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract

irritation)

Signal Word (s) DANGER

**Hazard Statement (s)** 

H226 Flammable liquid and vapour. H290 May be corrosive to metals H315 Causes skin irritation. H318 Causes serious eye damage. H332 Harmful if inhaled.

H335 May cause respiratory irritation. Flame, Corrosion, Exclamation mark

Pictogram (s)







**Precautionary** statement -Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.





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P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P234 Keep only in original container.

**Precautionary** 

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

statement - Response P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P370+P378 In case of fire: Use foam, dry chemical, CO2 or water spray for

extinction.

P390 Absorb spillage to prevent material damage.

**Precautionary** statement - Storage P403+P233 Store in a wellventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner. P501 Dispose of contents/container to an approved waste disposal plant.

Precautionary statement - Disposal

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Isoamyl alcohol	123-51-3	72.5 %
	Hydrochloric Acid	7647-01-0	22.5 %
	<pre>p-Dimethylaminobenzalde yde</pre>	h 100-10-7	5 %

### 4. First-aid measures

Inhalation	If inhaled,	remove to	fresh	air. I	If not.	breathing.	aive	artificial
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respiration. If breathing is difficult, give oxygen.

Seek medical attention if breathing problems develop. Do not use

mouth-to-mouth method, use an alternative method or a proper respiratory

device.

Rinse mouth thoroughly with water immediately, repeat until all traces of Ingestion

product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical

advice.

Skin Immediately remove contaminated clothing and wash affected area with water for

at least  $1\overline{5}$  minutes. Ensure contaminated clothing is washed before re-use.

Seek medical advice /attention depending on the severity.

In case of eye contact, hold eyelids open and rinse with water for at least 15 Eye contact

minutes. Seek immediate medical attention.

Maintain eyewash fountain and safety shower in work area. **First Aid Facilities** 

Treat symptomatically based on judgement of doctor and individual reactions of **Advice to Doctor** 

the patient.

Symptoms Caused by Exposure: Most important

symptoms/effects, acute and delayed Inhalation: May be harmful if inhalted. May cause respiratory irritation leading to headache, cough, dizziness incoordination and chest pains.

Skin Contact: Causes skin irritation, itchiness and redness.

Eye Contact: Causes serious eye irritation, stinging, tearing and blurred

vision. May cause eye damage.

Ingestion: Harmful if swallowed. May cause irritation of mouth, throat and

stomach, mucous build up and stomach pain.

For advice, contact the National Poisons Information Centre (Phone Australia Other Information

13 11 26; New Zealand 0800 764 766) or a doctor.





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### 5. Fire-fighting measures

Hazards from Combustion

**Specific Methods** 

Oxides of carbon.

**Products** 

Caution: Use of water spray when fighting fire may be inefficient.

Small fire: Use foam, dry chemical, CO2 or water spray.

Large fire: Use foam, fog or water spray - Do NOT use water jets. If safe to do so, move undamaged containers from the fire area. Cool

containers with flooding quantities of water until well after the fire is out.

Avoid getting water inside the containers.

Specific hazards arising from the chemical

FLAMMABLE: This product has a low flash point. Will be easily ignited by heat, sparks or flames. Vapours will form explosive mixtures with air. Vapours will travel to source of ignition and flash back. Many vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Many liquids are lighter than water. Containers may explode on heating. Fire will produce irritating, poisonous or corrosive gases. Vapours from run-off may

create an explosion hazard.

**Hazchem Code** • 3WE

Precautions in connection with Fire Wear SCBA and fully encapsulating, gas-tight suit when handling these substances. Structural firefighter's uniform is NOT effective for these

materials.

### 6. Accidental release measures

Spills & Disposal

Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 50m. All equipment used when handling the product must be earthed. Do NOT touch or walk through spilled material. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Vapour-suppressing foam may be used to control vapours. Water spray may be used to knock down or divert vapour clouds.

Absorb with earth, sand or other non-combustible material. Use clean, non-sparking tool to collect absorbed material and place it into loosely-covered metal or plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

**Personal Precautions** 

Remove ignition sources Evacuate the area of all non-essential personnel.

Avoid inhalation, contact with skin, eyes and clothing.

**Personal Protection** 

Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods -**Small Spillages** 

Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or

overdrum.

### 7. Handling and storage

Precautions for Safe Handling

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area. Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well ventilated area out of direct sunlight. Keep in original container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents and alkalies.

**Storage Regulations** 

Refer Australian Standard AS 1940-2017 'The storage and handling of flammable and combustible liquids'.

**Unsuitable Materials** 

Various plastics, rubber.

### 8. Exposure controls/personal protection





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Occupational exposure limit values	Name	:	STEL	נ	AWT		
exposure mint values		mg/m3	ppm	mg/m3	ppm	Footnote	
	Isoamyl alcohol Hydrochloric Acid	452	125	361 7.5	100 5	Peak limitation	
Other Exposure Information	These Workplace Exposure S occupational health hazard as low a level as is worka be used as fine dividing I chemicals. They are not a The STEL (Short Term Expos exceeded for more than 15 times per day. There shoul exposures at the STEL. The concentration of a particu working day for a 5 day wo 'Peak Limitation' - a ceil a measurement period which minutes.	s. All at ble. Thes ines between the control of the	emospheric se workpla ween safe of relative i) is an eand should least 60 re e value at cance where ek.	c contaminate exposure and danger toxicity exposure valuated to the TWA and calculate which shows	ation sh re stand rous con y. alue tha epeated tween su is the a ed over uld not	ould be kept to ards should not centrations of t should not be for more than 4 ccessive verage airborne a normal 8 hour be exceeded over	
Appropriate engineering controls	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.						
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.						
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.						
Hand Protection	Wear gloves of impervious protective gloves - Select appropriate glove type wil can include methods of han appropriate risk assessmen hands, do not touch the gl waste.	ion, use l vary ac dling, ar ts. Avoi	and maint cording t nd enginee .d skin co	tenance.  to individuering contions  ontact when	Final ch ual circ rols as n removi	oice of umstances. This determined by ng gloves from	
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control rist and should only be used when all other reasonably practicable control measured on not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.						
Footwear	Safety boots in industrial comply with AS 2210, Occup care and use.						
<b>Body Protection</b>	Wear suitable protective c protective clothing should protection against chemica Protection Against Hazardo	be worn, ls should	preferak d comply w	oly with a	n apron.	Clothing for	
Hygiene Measures	Always wash hands before s contaminated clothing and re-using.	moking, e	eating or	_			

### 9. Physical and chemical properties

Form Liquid
Colour Straw





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Mild pleasant odour. Odour

43 °C (C.C.) isoamyl alcohol Flash Point

Flammability FLAMMABLE.

Flammable Limits -1.2 vol% isoamyl alcohol

Lower

Flammable Limits -8 vol% isoamyl alcohol

Upper

10. Stability and reactivity

**Chemical Stability** Stable under normal use conditons.

Light. Heat, flames, ignition sources and incompatibles. **Conditions to Avoid** 

Strong oxidising agents, acid chlorides, acid anhydrides, alkali metals, Incompatible

alkaline earth metals, fluorine, oxygen and reducing agents. Materials

Hazardous Oxides of carbon. May produce acrid smoke and irritating fumes when heated to decomposition.

Decomposition **Products** 

Possibility of Contact with strong oxidising agents increases the risk of fire and explosion.

hazardous reactions Contact with reducing agents and hydrogen trisulfide causes a vigorous

reaction and explosion.

Hazardous

Will not occur. **Polymerization** 

11. Toxicological Information

Acute Toxicity - Oral LD50 (rat): 1300 mg/kg isoamyl alcohol

**Acute Toxicity -**

Dermal

LD50 (rabbit): > 3000 mg/kg isoamyl alcohol

May be harmful if swallowed. Absorption of large quantities my cause the Ingestion following symptoms: weakness, pain, burning sensations in the chest and

stomach, abdominal pain, headache, dizziness, nausea, CNS disorders, feeling of drunkenness or intoxication, inability to move, unconsciousness, coma.

Inhalation Harmful by inhalation. Vapour causes irritation of the mucous membranes in the

nose, throat and respiratory tract. Symptoms include of headache, difficulting in breathing, chest pains, coughing, dizziness, nausea, vomiting, feelings of drunkenness and unconsciousness. Exposure to high concentrations may result in

a narcotic effect, central nervous system distrubances and death. May cause skin irritation. Symptoms include redness and pain.

Causes serious eye damage. Contact with liquid may cause severe pain and Eye

irritation.

Not classified based on available information. Respiratory

sensitisation

Skin

**Skin Sensitisation** Not classified based on available information.

mutagenicity

Not classified based on available information. Germ cell

Not classified based on available information. Carcinogenicity Not classified based on available information. Reproductive

**Toxicity** 

Not classified based on available information.

STOT-single

exposure

Not classified based on available information. STOT-repeated exposure

Repeated or prolonged skin exposure may cause dermatitis. Prolonged or **Chronic Effects** repeated exposure may cause irreversible damage to health, lung damage or

death.





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Serious eye

Serious eye damage/eye irritation Category 1 damage/irritation

H318 Causes serious eye damage.

Not classified based on available information. Mutagenicity

Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract Respiratory

irritation) **Irritation** 

H335 May cause respiratory irritation. Skin corrosion/irritation Category 2

corrosion/irritation H315 Causes skin irritation.

### 12. Ecological information

Persistence and

Readily biodegradable - isoamyl alcohol.

degradability

No data avaliable. **Mobility** Bioaccumulative No data avaliable.

**Potential** 

Skin

**Other Information** Do not allow to enter waters, waste water, or soil!

### 13. Disposal considerations

**Disposal** Whatever cannot be saved for recovery or recycling should be handled as

hazardous waste and disposed of according to relevant local, state and federal Considerations

government regulations.

### 14. Transport information

Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard **Transport** 

load with any of the following: Information

Class 1, Class 2.1, if both the Class 3 and Class 2.1 dangerous goods are in bulk, Class 2.3, Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods

are nitromethane, Class 7.

2924 U.N. Number

**UN proper shipping** 

name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. - (PENTANOLS, 4-dimethylaminobenzaldehyde)

Transport hazard

class(es)

3

Sub.Risk

8

**Hazchem Code** • 3WE ΙI **Packing Group** 3A4

**EPG Number** 18 **IERG Number** 

### 15. Regulatory information

Regulatory All the constituents of this product are listed on the Australian Inventory of Chemical Substances ( AICS ), or exempted. Not listed under WHS Regulation Information

2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and

restricted hazardous chemicals.

Not Scheduled **Poisons Schedule** 

### 16. Other Information

Literature 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. References

National Road Transport Commission, 'Australian Code for the Transport of

Dangerous Goods by Road and Rail 7th. Ed.'.

Safe Work Australia, 'National Code of Practice fot the Preparation of Safety

Data Sheets for Hazardous Chemicals'

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency

Response Guide', Standards Australia/Standards New Zealand.





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Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe

Work Hazardous Substances'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

Contact Person/Point Amber Scientific Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Amber Scientific Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Amber Scientific Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods. ...End Of MSDS...

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