

Infosafe No™ 3CHOS	Issue Date : January 2021	RE-ISSUED by AMBERSCI
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 Product Name **VOUGUES PROSKAUER 1**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	VOUGUES PROSKAUER 1
<b>Product Code</b>	VP1
<b>Company Name</b>	AMBER SCIENTIFIC Pty LTD
<b>Address</b>	24 - 28 Stratton Drive Traralgon Victoria 3844 Australia
<b>Telephone/Fax Number</b>	Tel: (03) 5176 2855
<b>Emergency phone number</b>	CHEMCALL (24 hours): 1800 127 406 (Australia) / +64-4-917-98888 (International)
<b>Recommended use of the chemical and restrictions on use</b>	Used in hospital and pathology laboratories only.
<b>Other Information</b>	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

<b>GHS classification of the substance/mixture</b>	Corrosive to Metals: Category 1 Acute Toxicity - Oral: Category 4 Skin Corrosion/Irritation: Category 1A
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
<b>Pictogram (s)</b>	Corrosion, Exclamation mark
 	
<b>Precautionary statement – Prevention</b>	P234 Keep only in original container. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement – Response</b>	P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. 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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**Precautionary statement – Storage** P405 Store locked up.  
 P406 Store in corrosive resistant container with a resistant inner liner.  
**Precautionary statement – Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	potassium hydroxide	1310-58-3	40 %
	Water to make a total of	7732-18-5	
	100%		

### 4. First-aid measures

**Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial 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.

**Ingestion** Rinse mouth thoroughly with water immediately, repeat until all traces of 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 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.

**Eye contact** If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek medical attention.

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

**Advice to Doctor** Treat symptomatically as for strong alkalis. Treat symptomatically based on judgement of doctor and individual reactions of the patient. Burns are not immediately painful, onset of pain may be minutes to hours.

**Most important symptoms/effects, acute and delayed**  
 Inhalation: May cause respiratory irritation leading to headache, dizziness, incoordination and respiratory collapse.  
 Skin Contact: Causes severe skin burns, redness, blistering, pain and dermatitis.  
 Eye Contact: Causes serious eye damage. May cause eye irritation, stinging, tearing and blindness.  
 Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach, leading to nausea, vomiting, diarrhoea and death.

**Other Information** For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

### 5. Fire-fighting measures

**Suitable extinguishing media** Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Hazards from Combustion Products** May liberate toxic fumes in fire (oxides of carbon).

**Specific hazards arising from the chemical** Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gases. Containers may explode when heated.

**Hazchem Code** 2R

**Precautions in connection with Fire** Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

### 6. Accidental release measures

**Spills & Disposal** Do NOT touch or walk through this product. Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Cover with DRY earth, sand or other non-combustible material followed by plastic sheet to minimize spreading or contact with rain.

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<b>Personal Precautions</b>	DO NOT GET WATER INSIDE CONTAINERS. Avoid inhalation, contact with skin, eyes and clothing. Evacuate the area of all non-essential personnel.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	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.
<b>Clean-up Methods - Large Spillages</b>	Seek expert advice on handling and disposal.
<b>Environmental Precautions</b>	Use appropriate containment to avoid environmental contamination.
<b>Other Information</b>	Spillages are very slippery.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid prolonged or repeated contact with skin, eyes and clothing . Avoid breathing vapour, spray or mists. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands and face thoroughly after working with material.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, dry place. Keep containers securely sealed and protected against physical damage. Avoid direct sunlight, heat sources, and strong oxidizing agents. Store away from foodstuffs. Do not store in aluminium or galvanised containers or use die-cast zinc or aluminium bungs. Steel bungs should be used. Reacts exothermically on dilution with water. Keep containers closed at all times - check regularly for leaks.
<b>Corrosiveness</b>	Corrosive to aluminum, tin and zinc. Corrosive to steel at elevated temperatures.
<b>Storage Regulations</b>	Refer Australian Standard AS 3780-2008 'The storage and handling of corrosive substances'.

## 8. Exposure controls/personal protection

<b>Other Exposure Information</b>	These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. A time weighted average (TWA) has been established for Potassium hydroxide (Safe Work Australia) of 2 mg/m <sup>3</sup> . The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.
<b>Appropriate engineering controls</b>	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.
<b>Respiratory Protection</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.
<b>Eye Protection</b>	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.
<b>Hand Protection</b>	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous

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<b>Personal Protective Equipment</b>	waste. Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
<b>Footwear</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Body Protection</b>	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Clear colourless solution.
<b>Odour</b>	Odourless.
<b>Solubility in Water</b>	Completely miscible
<b>Specific Gravity</b>	~1.5
<b>pH</b>	pH of 1% aqueous solution: ~13
<b>Flammability</b>	Non combustible material.
<b>Auto-Ignition Temperature</b>	Not applicable
<b>Flammable Limits - Lower</b>	Not applicable
<b>Flammable Limits - Upper</b>	Not applicable
<b>Molecular Weight</b>	56.11
<b>Other Information</b>	Refractive index: 1.421

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable. Absorbs carbon dioxide from the air.
<b>Conditions to Avoid</b>	Exposure to moisture. High temperatures. Incompatibles.
<b>Incompatible Materials</b>	Strong acids, acetone, aluminium, ammonium compounds, alkaline earth metals, chlorinated hydrocarbons, halogens and halogenated compounds, metals, anhydride, strong oxidizing agents and nitro organic compounds. Glass, metals and various plastics.
<b>Hazardous Decomposition Products</b>	Potassium oxides.
<b>Possibility of hazardous reactions</b>	May react explosively with maleic anhydride and nitro and chloro organic compounds. In contact with metals, may produce flammable and explosive hydrogen gas. May react with organohalogen compounds to form spontaneously combustible compounds. Violent reaction with acids, yielding heat and pressure which can burst an enclosed container.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat): 273 mg/kg (pure substance).
<b>Ingestion</b>	Harmful if swallowed. Corrosive to mucous membranes and may cause perforation

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<b>Inhalation</b>	of the esophagus and stomach. Abdominal pain, nausea, vomiting, general gastro-intestinal upset can be expected.
<b>Skin</b>	Respiratory tract irritant, causes serious burns on acute contact. Severe injury is usually avoided by the self-limiting coughing, wheezing, shortness of breath and sneezing symptoms. May lead to spasms, inflammation and edema of the larynx/bronchi, pneumonitis, pulmonary edema and burning sensation.
<b>Eye</b>	Causes skin burns and irritation upon contact. Soreness, redness, destruction of skin may result.
<b>Respiratory sensitisation</b>	Causes eye burns and irritation upon contact. Tearing, redness, pain, impaired vision are symptoms. Risk of blindness! Risk of corneal clouding!
<b>Skin Sensitisation</b>	Not classified based on available information.
<b>Germ cell mutagenicity</b>	Not classified based on available information.
<b>Carcinogenicity</b>	Not classified based on available information.
<b>Reproductive Toxicity</b>	Not classified based on available information.
<b>STOT-single exposure</b>	Not classified based on available information.
<b>STOT-repeated exposure</b>	Not classified based on available information.
<b>Chronic Effects</b>	Not classified based on available information.
<b>Serious eye damage/irritation</b>	Development of a defatting dermatitis on prolonged contact with potassium hydroxide has been reported. Continued irritation may lead to increased susceptibility to respiratory illness.
<b>Mutagenicity</b>	Skin Corrosion/Irritation: Category 1A H314 Causes severe skin burns and eye damage.
<b>Skin corrosion/irritation</b>	No evidence of mutagenic properties.
	Skin Corrosion/Irritation: Category 1A H314 Causes severe skin burns and eye damage.

## 12. Ecological information

<b>Ecological Information</b>	Harmful to aquatic life due to pH shift.
<b>Ecotoxicity</b>	No ecological data available for this product.
<b>Environmental Protection</b>	Avoid contaminating waterways.
<b>Other Information</b>	Do not allow to enter drinking water supplies, waste water or soil!

## 13. Disposal considerations

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.
<b>U.N. Number</b>	1814
<b>UN proper shipping name</b>	POTASSIUM HYDROXIDE SOLUTION
<b>Transport hazard class(es)</b>	8
<b>Hazchem Code</b>	2R

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<b>Packing Group</b>	II
<b>EPG Number</b>	8A1
<b>IERG Number</b>	37

## 15. Regulatory information

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
<b>Poisons Schedule</b>	S6

## 16. Other Information

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. 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 for 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. 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'.
<b>Contact Person/Point</b>	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.
<b>Empirical Formula &amp; Structural Formula</b>	KOH + water  ...End Of MSDS...

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