HURST SCIENTIFIC

Safety Data Sheet
PAPANICOLAOU OG6

SECTION 1: Identification

GHS Product identifier

Product name	PAPANICOLAOU OG6
Product number	OG6-500M, 1L, 2.5L, 5L
Brand	Hurstchem

Other means of identification
Pap Stain

Recommended use of the chemical and restrictions on use
Laboratory Reagent

Supplier's details

Name	Hurst Scientific
Address	2 Transit Place 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

Emergency phone number

Australian Poisons Information Centre 131 126
Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement
Classified as a Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.
Classified as a Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 8

- Flammable liquids, Cat. 2
- Eye damage/irritation, Cat. 2A

GHS label elements, including precautionary statements

Pictograms

1. Flame; 2. Exclamation mark

Signal word	**Danger**

Hazard statement(s)

H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...
P264	Wash … thoroughly after handling.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
P370+P378	In case of fire: Use … to extinguish.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to …

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. Ethanol

Concentration	> 60 % (volume)
EC no.	200-578-6
CAS no.	64-17-5
Index no.	603-002-00-5

- Flammable liquids, Cat. 2

H225	Highly flammable liquid and vapor

2. Water/Aqua/Eau

Concentration	Balance
CAS no.	7732-18-5

3. Acetic acid

Concentration	< 1 % (volume)
EC no.	200-580-7
CAS no.	64-19-7
Index no.	607-002-00-6

- Flammable liquids, Cat. 3
- Skin corrosion/irritation, Cat. 1A

H226	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage
SCLs/M-factors/ATEs	Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %

4. C.I. ACID ORANGE 10

Concentration	< 1 % (volume)
EC no.	217-705-6
CAS no.	1936-15-8

5. Phosphotungstic Acid Hydrate

Concentration	< 1 % (volume)
CAS no.	12501-23-4

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Evacuate to fresh air immediately. If unconscious place in recovery position, provide artificial respiration if breathing ceases.
In case of skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.
In case of eye contact	Flush eyes with copious amounts of water for at least 15 minutes. Seek medical attention.
If swallowed	DO NOT induce vomiting. Wash mouth out with copious amounts of water. Seek immediate medical attention.

Personal protective equipment for first-aid responders
Eye wash station, safety shower and First Aid kit.

Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically and based on individual reactions of patient and judgement of a Doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Water fog or foam. Keep containers cool with water spray.

Specific hazards arising from the chemical

Ethanol: Carbon oxides

Special protective actions for fire-fighters
Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.

Further information
Hazchem code 2YE

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
If spill or leakage occurs eliminate all sources of ignition and take measures to prevent static discharge. Clear area of all persons not involved with the clean-up and ensure all others wear suitable protective equipment and breathing apparatus. Prevent run off into drains and if contamination of waterways has occurred notify the local emergency services. Use water spray to disperse vapour and do not smoke. Ventilate the area well and ensure the atmosphere is clear of contaminant prior to allowing personnel to return.

Methods and materials for containment and cleaning up
Absorb with vermiculite or similar and place into suitably labelled containers for later disposal. Wash the affected area with a large volume of water.

SECTION 7: Handling and storage

Precautions for safe handling
Use in well-ventilated areas away from all sources of ignition. Wear appropriate protective equipment. Observe good personal hygiene practices and procedures to avoid contact with eyes, skin and clothing.

Conditions for safe storage, including any incompatibilities
Store in tightly closed containers in a cool, dry environment away from sources of ignition and incompatibles. Check regularly for leaks.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 64-17-5
Ethanol
AU/SWA (Australia): 1000 ppm; 1880 mg/m3 TWA inhalation

CAS: 64-19-7
Acetic acid
AU/SWA (Australia): 15 ppm; 37 mg/m3 STEL inhalation; 10 ppm; 25 mg/m3 TWA inhalation

Appropriate engineering controls
Ensure adequate ventilation to maintain airborne concentrations below national exposure standards.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear suitable protective clothing, safety glasses or chemical resistant splash-proof goggles to prevent eye contact and nitrile/neoprene gloves. If working within a confined area use a suitable respirator at all times.

Skin protection
Wear suitable protective clothing, safety glasses or chemical resistant splash-proof goggles to prevent eye contact and nitrile/neoprene gloves. If working within a confined area use a suitable respirator at all times.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Bright Orange liquid
Odor	Distinct Alcohol odour
Melting point/freezing point	-117°C
Boiling point or initial boiling point and boiling range	78°C
Flammability	
Lower and upper explosion limit/flammability limit	Ethanol: 3.5% - 19%
Flash point	Ethanol: 13°C (closed cup)
Auto-ignition temperature	
Decomposition temperature	
pH	Not available
Kinematic viscosity	
Solubility	Soluble
Partition coefficient n-octanol/water (log value)	
Vapor pressure	44mm Hg (@20°C)
Density and/or relative density	Approx. 0.9 (water = 1)
Relative vapor density	Not available

SECTION 10: Stability and reactivity

Chemical stability
Stable under recommended conditions for use and storage.

Possibility of hazardous reactions
None known.

Conditions to avoid
Heat, direct sunlight, sparks, flame and build-up of static electricity.

Incompatible materials

Ethanol: Alkali metals, Oxidizing agents, Peroxides

Methanol: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

---
Acetic acid: Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, e.g. potassium permanganate, Amines, Alcohols, Nitric acid

Hazardous decomposition products

Acetic acid: Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ethanol: ACGIH: A3 Confirmed animal carcinogen with unknown relevance to humans.

Skin corrosion/irritation
No classification.

Serious eye damage/irritation
Can cause damage to eyes.

Respiratory or skin sensitization
Not data available.

Germ cell mutagenicity
No data available.

Carcinogenicity
No classification by IARC.

Reproductive toxicity
No data available.

Specific target organ toxicity (STOT) - single exposure
No data available.

Specific target organ toxicity (STOT) - repeated exposure
No data available.

Aspiration hazard
No data available.

Additional information
Ethanol (100%) : Inhalation LC50 Rat: 2000 ppm/10h
Oral LD50 Rat: 7060 mg/kg
Ingestion LD50 Mouse: 3450 mg/kg
Acetic Acid Oral LD50 Rat: 3310 mg/kg
Inhalation LC50 Rat: 11.4 mg/l/4h
Dermal LD50 Rabbit: 1060mg/kg

SECTION 12: Ecological information

Toxicity
Not available for this mixture.

Persistence and degradability
Not available for this mixture.

Bioaccumulative potential
Not expected to bio-accumulate.

Mobility in soil
Not available for this mixture.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Dispose of in accordance with local authority guidelines. Empty containers may hold hazardous residual product.

Other disposal recommendations
Do not incinerate closed containers.

SECTION 14: Transport information

UN Number	1170
Hazchem emergency action code (EAC)	2YE
UN Proper Shipping Name	Ethanol solution
Transport hazard class(es)	3
Packing group	II

Special precautions for user
Nil

SECTION 15: Regulatory information

Chemical Safety Assessment
- Poison Schedule: Not scheduled.
- TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day week.
- STEL (Short Term Exposure Limit): The average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday.

SECTION 16: Other information

Further information/disclaimer
This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

Preparation information
References
1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Can print: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).