



Safety Data Sheet
Picro Orange G Solution

SECTION 1: Identification

GHS Product identifier

Product name	Picro Orange G Solution
Product number	POG-100M, 500M, 1lt
Brand	Hurstchem

Other means of identification

Picro Orange G Solution

Recommended use of the chemical and restrictions on use

Laboratory Reagent

Supplier's details

Name	Hurst Scientific
Address	2/36 Hensbrook Loop 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 NON-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

- Sensitization - skin, Cat. 1

GHS label elements, including precautionary statements

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Pictograms



1. Exclamation mark

Signal word

Warning

Hazard statement(s)

H317

May cause an allergic skin reaction.

Precautionary statement(s)

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P272

Contaminated work clothing should not be allowed out of the workplace.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

P302+P352

IF ON SKIN: Wash with plenty of water/...

P333+P317

If skin irritation or rash occurs: Get medical help.

P362+P364

Take off contaminated clothing and wash it before reuse.

P403

Store in a well-ventilated place.

P501

Dispose of contents/container to ...

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. Picric acid

Concentration

< 1 %

CAS no.

88-89-1

2. Water

Concentration

Balance

CAS no.

7732-18-5

3. ORANGE G

Concentration

10 %

CAS no.

1936-15-8

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled

Evacuate to fresh air immediately. Apply artificial respiration if not breathing. Seek medical attention.

In case of skin contact

Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.

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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. Rinse mouth out with water. Give water to drink if patient is conscious. Seek 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.	

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Water spray, Dry chemical, Carbon Dioxide or Alcohol-resistant foam.

Specific hazards arising from the chemical

Explosive when dry. Potentially explosive in a fire situation. Evacuate area and contact emergency services. Toxic gases (Carbon/Nitrogen oxides) may evolve. Use water fog to cool intact containers. Do not sweep up dry residues.

Special protective actions for fire-fighters

Fire fighters should wear a positive-pressure Self-Contained Breathing Apparatus (SCBA) and protective clothing (includes helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas where gases or fumes can accumulate. Do not use direct water stream. Eliminate ignition sources.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear full protective clothing. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. Do NOT let product contaminate drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

Methods and materials for containment and cleaning up

Soak up using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. Collect material into suitably labelled dry chemical- waste containers and dispose of promptly as hazardous waste.

SECTION 7: Handling and storage

Precautions for safe handling

Use only in an adequately ventilated area. Avoid breathing in mists or vapours. Wear appropriate protective clothing to avoid any exposure and practice good personal hygiene. Keep containers closed when not in use.

Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well ventilated place away from: Direct sunlight, heat sources and incompatible materials. Keep container closed when not in use. Keep wet with water.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 88-89-1

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Picric acid
AU/SWA (Australia): 0.1 mg/m³ TWA inhalation

Appropriate engineering controls

Ensure adequate ventilation. Only trained personnel should be exposed to this product.

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

Eye/face protection

Safety glasses or goggles, chemical-resistant gloves and laboratory coat.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Color	Bright Orange
Odor	Odourless
Melting point/freezing point	0°C
Boiling point or initial boiling point and boiling range	100°C
Lower and upper explosion limit/flammability limit	Not available
pH	Not available
Solubility	Not available
Vapor pressure	Not available
Density and/or relative density	1.0

SECTION 10: Stability and reactivity

Reactivity

Non-reactive under recommended conditions for use and storage.

Chemical stability

Stable under recommended conditions for use and storage.

Possibility of hazardous reactions

Polymerisation will not occur.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Picric acid forms salts with many metals some of which are rather sensitive to heat, friction, or impact, and should be considered dangerously sensitive. Contact of picric acid with concrete floors may form the friction-sensitive calcium salt. Dry mixtures of picric acid and aluminium powder are inert, but the addition of water causes ignition after a delay dependent upon the quantity added. Material older than 2 years should be disposed of. Inspect and add water every six months as needed. Rotate containers to distribute water every three months.

Incompatible materials

Strong reducing agents. Strong acids. Strong oxidizers, heavy metals, heavy metal salts and Ammonia.

Hazardous decomposition products

During a fire, irritating and highly toxic gases may be generated.

SECTION 11: Toxicological information

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Information on toxicological effects

Acute toxicity

Eye Contact Can result in pain, redness and irritation.

Skin Contact Can result in dermatitis and discolouration. Can be absorbed through unbroken skin. May cause an allergic reaction.

Inhalation Irritating to mucous membranes of the respiratory tract, dizziness, muscle pain and kidney problems.

Ingestion Can cause irritation to the mucous membranes, headache, nausea, vomiting and diarrhoea.

Chronic: Chronic exposure may result in vomiting, diarrhoea, muscle pain, weakness, skin discolouration and kidney and liver damage and destruction of red blood cells.

Skin corrosion/irritation

May cause an allergic skin reaction.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No classification under IARC monographs.

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

Picric Acid Saturated: Oral LD50 Rat: >60,000mg/kg

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

Not expected to bio-accumulate.

Mobility in soil

No data available.

Other adverse effects

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Environmental fate (exposure) Do not contaminate drains and waterways.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of in accordance with local authority guidelines.

Packaging disposal

Dispose of in accordance with local authority guidelines.

Other disposal recommendations

Special precautions Nil.

SECTION 14: Transport information

UN Number	None
UN Proper Shipping Name	None
Transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
Transport in bulk according to IMO instruments	None

SECTION 15: Regulatory information

Chemical Safety Assessment

- 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.

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.

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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); Canprint: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).