







SDS no. ADZZH6JH • Version 1.0 • Date of issue: 2022-10-24

#### **SECTION 1: Identification**

#### **GHS Product identifier**

Product name METOL

## Recommended use of the chemical and restrictions on use

Developing agent used in black and white photographic developers and for most continuous tone developer applications and laboratory reagent.

#### Supplier's details

Name ChemSupply Australia Pty Ltd

Address 38-50 Bedford Street

5013 Gillman South Australia

Australia

Telephone 08 8440 2000

email www.chemsupply.com

**Emergency phone number** 

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

## **SECTION 2: Hazard identification**

#### **General hazard statement**

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

# Classification of the substance or mixture

#### GHS classification in accordance with: UN GHS revision 7

- Skin sensitizer, Cat. 1
- Specific target organ toxicity following repeated exposure, Cat. 2
- Hazardous to the aquatic environment, short-term (acute), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic), Cat. 1
- Acute toxicity, oral, Cat. 4

## GHS label elements, including precautionary statements

#### **Pictograms**



# Signal word Warning

Hazard statement(s)

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

H302 Harmful if swallowed

H373 May cause damage to organs through prolonged or repeated exposure

H317 May cause an allergic skin reaction

Precautionary statement(s)

P273 Avoid release to the environment.
P264 Wash hands thoroughly after handling.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P391 Collect spillage.

P270 Do not eat, drink or smoke when using this product.
P314 Get medical advice/attention if you feel unwell.

P272 Contaminated work clothing should not be allowed out of the workplace.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/physcian if you feel unwell,
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P330 Rinse mouth.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to aproved waste disposal facility

# **SECTION 3: Composition/information on ingredients**

#### **Mixtures**

Molecular weight: 344.39

#### Components

Component	Concentration
P-METHYLAMINOPHENOL SULFATE (CAS no.: 55-55-0; EC no.: 200-237-1; Index no.: 650-031-00-4)	100 - 100 % (weight)

CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Specific target organ toxicity following repeated exposure, Cat. 2; Skin sensitizer, Cat. 1; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: H302 - Harmful if swallowed; H317 - May cause an allergic skin reaction; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route]; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.

# **SECTION 4: First-aid measures**

#### **Description of necessary first-aid measures**

General advice For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New

Zealand 0800 764 766) or a doctor (at once).

If inhaled If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

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# Safety Data Sheet METOL

In case of skin contact If skin or hair contact occurs, remove contaminated clothing and flush skin and hair

with running water.

In case of eye contact If in eyes, hold eyelids apart and flush eye continuously with running water. Continue

flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 13

11 26; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.

If swallowed, do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of immediate medical attention and special treatment needed, if necessary

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

## **SECTION 5: Fire-fighting measures**

# Suitable extinguishing media

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

Large fire: Use water spray, fog or foam.

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.

#### Specific hazards arising from the chemical

Irritating or highly toxic fumes (or gases), including carbon dioxide and probably carbon monoxide. Oxides of sulfur and nitrogen may also be present.

May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.

#### Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

## **Further information**

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

# **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

# **SECTION 7: Handling and storage**

#### **Precautions for safe handling**

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Avoid ingestion and inhalation of dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated contact with skin. Minimize dust generation and accumulation. Keep containers tightly closed when not in use. Use with adequate ventilation.

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

Store in tightly closed, labelled containers, in a cool, dry, well-ventilated area away from incompatible substances. Absorbs oxygen from the air and will darken upon exposure. Protect from direct sunlight, air and moisture. Do not store in direct sunlight. Store separately from reactive or combustible materials. Store away from sources of heat or ignition.

# **SECTION 8: Exposure controls/personal protection**

#### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.f the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

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

## **Eye/face 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.

#### Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Normally not required but if in doubt ensure hand protection should complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

#### **Body protection**

Color

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

#### **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.

# **SECTION 9: Physical and chemical properties**

# **Basic physical and chemical properties**

Physical state Solid

Appearance White to off-white, or beige, fine crystalline powder or crystals.

Discolours in air.
No data available.
Odourless.

Odor Odourless.
Odor threshold No data available.

Melting point/freezing point

260 °C (decomposes)

Boiling point or initial boiling point and boiling range

No data available.

Boiling point or initial boiling point and boiling range

No data available.

Flammability

No data available.

Lower and upper explosion limit/flammability limit

No data available.

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Flash point 256 °C (CC) **Explosive properties** No data available. 531 °C: 532 °C. Auto-ignition temperature

260 °C. Decomposition temperature Oxidizing properties No data available.

3.5 - 5 (5% H20) Kinematic viscosity No data available.

Solubility Solubility in Water: Moderately soluble (4.7 g/100 ml at 15 °C). [13] Solubility in Organic Solvents: Soluble in alcohol. Insoluble

in ether.

No data available. Partition coefficient n-octanol/water (log value)

No data available. Vapor pressure Evaporation rate Negligible (n-butyl acetate = 1).

Density and/or relative density Specific Gravity: > 1.0 No data available. Relative vapor density

#### **Particle characteristics**

No data available.

# Supplemental information regarding physical hazard classes

No data available.

### **Further safety characteristics (supplemental)**

No data available.

# **SECTION 10: Stability and reactivity**

# Reactivity

Stable under normal conditions of storage and handling.

#### **Chemical stability**

Stable under normal temperatures, pressures and conditions of use and storage. Sensitive to air and light - may discolour on exposure.

## Possibility of hazardous reactions

Reacts with acids, acid anhydrides, acid chlorides and oxidants.

#### **Conditions to avoid**

Heat, flames, ignition sources, light, air, dust generation and incompatible materials.

#### **Incompatible materials**

Oxidizing agents, acids, acid anhydrides and acid chlorides.

## **Hazardous decomposition products**

Toxic fumes, including nitrogen oxides and sulfur oxides, carbon dioxide and probably carbon monoxide.

# **SECTION 11: Toxicological information**

## Information on toxicological effects

#### **Acute toxicity**

Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhoea. May cause blood abnormalities.

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Effects from ingestion by humans are not well documented. May resemble phenol and aniline poisoning which can cause headache, shallow respiration, low blood pressure and methaemoglobin formation.

May be harmful by inhalation. Dusts may irritate the respiratory system. Symptoms may include, coughing and sore throat. Exposure to high air concentrations of substance may cause systemic toxic effects.

#### Skin corrosion/irritation

May cause mechanical irritation and irritation in aqueous solutions, resulting in redness and itching. May cause local dermatitis at site of contact, as well as some evidence of sensitization (an allergic skin reaction) dermatitis in which subsequent exposure triggers a chronic condition that is resistant to medication.

#### Serious eye damage/irritation

May cause abrasive irritation in contact with the eyes, resulting in redness, pain, itching and damage to eye tissue.

Eye irritation (rabbit): moderate to strong irritation.

#### Respiratory or skin sensitization

May cause an allergic skin reaction

### **Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

#### Carcinogenicity

Not considered to be a carcinogenic hazard.

## Reproductive toxicity

Not considered to be toxic to reproduction.

## Specific target organ toxicity (STOT) - single exposure

Not expected to cause toxicity to a specific target organ.

## Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure

#### **Aspiration hazard**

Not expected to be an aspiration hazard.

#### **Additional information**

Chronic Effects: Harmful: danger of serious damage to health by prolonged exposure if swallowed. Nervous system, liver, kidneys and bone marrow may be affected. The substance may have effects on the blood, resulting in lesions of blood cells. Weight loss, anaemia, weakness and irritability may occur. Prolonged or repeated ingestion of high and intermediate doses may produce brown urine, necrosis of the renal tubular epithelial cells, degeneration of haemoglobin in circulating erythrocytes, haemolytic anaemia, discoloured and enlarged spleens, and haemoglobinuric nephrosis, decreased activity, and death. Prolonged or repeated ingestion of low doses may produce minor kidney, spleen and red blood cell effects. Prolonged or repeated skin contact may cause skin irritation and skin sensitization dermatitis in some individuals.

HUMAN HEALTH TIER II ASSESSMENT FOR p-Methylaminophenol and its sulfate - https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment\_id=892#cas-A\_55-55-0 NICNAS.

# **SECTION 12: Ecological information**

## Toxicity

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Highly toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. This chemical has a high biological oxygen demand, and it is expected to cause significant oxygen depletion in aquatic systems. It has a high potential to affect aquatic organisms and secondary waste treatment microorganisms. It has a moderate potential to affect the germination and growth of some plants.

Acute Toxicity - Fish: Pimephales promelas LC50: 0.25 mg/l /96 h.

### Persistence and degradability

Biological degradableness: ~ 30 % (test in closed bottle).

Biologically not readily degradable.

TOD: 1.49 g/g.

Oxygen Demand Data: BOD5: 0.75 g/g; 0.55 g/g acclimated sludge.

#### **Bioaccumulative potential**

No data available.

#### Mobility in soil

No data available.

#### Results of PBT and vPvB assessment

No data available.

#### **Endocrine disrupting properties**

No data available.

## Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

#### **Disposal methods**

#### **Product disposal**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

# Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

# **SECTION 14: Transport information**

## **ADG (Road and Rail)**

UN Number: 3077

Class: 9

Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains 4-(Methylamino)-phenol sulphate)

Marine pollutant: Yes

### Hazchem emergency action code (EAC)

2Z

#### **IMDG**

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UN Number: 3077

Class: 9

Packing Group: III EMS Number: F-A, S-F

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains 4-(Methylamino)-phenol sulphate)

Special Provisions: 277, 335, 966, 967, 969

Marine Pollutant:

#### IATA

UN Number: 3077

Class: 9

Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains 4-(Methylamino)-phenol sulphate)

Pax/Cargo Pkg Inst: 956 Max Net Qty/Pkg: 400kg Cargo Aircraft Only Pkg Inst: 956

Max Net Qty/Pkg: 400kg

Special Provisions: A97, A158, A179, A197, A215

# **SECTION 15: Regulatory information**

Safety, health and environmental regulations specific for the product in question

Australia SUSMP Poison Schedule: NS

# **SECTION 16: Other information**

#### Further information/disclaimer

ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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.