

Safety Data Sheet O.G.6. Gill

SDS no. 507A00E3 • Version 1.0 • Date of issue: 2023-05-01

SECTION 1: Identification

GHS Product identifier

Product name O.G.6. Gill

Recommended use of the chemical and restrictions on use

Pathology Stain

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

- Serious eye damage/eye irritation, Cat. 2A
- Specific target organ toxicity following single exposure, Cat. 1
- Flammable liquids, Cat. 2

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

| | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapor |
| H302 | Harmful if swallowed |
| H313 | May be harmful in contact with skin |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H370 | Causes damage to organs [Eyes, CNS] |

Precautionary statement(s)

| | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion-proof [electrical/ventilating/lighting/...] equipment. |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell, |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P304+P312 | IF INHALED: Call a POISON CENTER/doctor/physician if you feel unwell. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTER/doctor/physician if you feel unwell. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P370+P378 | In case of fire: Use agents recommended in Section 5 of SDS for extinction |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of contents/container to an approved waste disposal facility |

SECTION 3: Composition/information on ingredients

Mixtures

Other components either not classified as Hazardous under the GHS, or below cut-off concentrations to be classified as Hazardous.

Hazardous components

| Component | Concentration |
|--|---------------------------|
| Ethanol (CAS no.: 64-17-5; EC no.: 200-578-6; Index no.: 603-002-00-5) | < 70 % (weight) |
| CLASSIFICATIONS: Flammable liquids, Cat. 2; Serious eye damage/eye irritation, Cat. 2A. HAZARDS: H225 - Highly flammable liquid and vapor; H319 - Causes serious eye irritation. | |
| Methanol (CAS no.: 67-56-1; EC no.: 200-659-6; Index no.: 603-001-00-X) | < 10 % (weight) |
| CLASSIFICATIONS: Flammable liquids, Cat. 2; Acute toxicity, inhalation, Cat. 3; Acute toxicity, dermal, Cat. 3; Acute toxicity, oral, Cat. 3; Specific target organ toxicity following single exposure, Cat. 1. HAZARDS: H225 - Highly flammable liquid and vapor; H301 - Toxic if swallowed; H311 - Toxic in contact with skin; H331 - Toxic if inhaled; H370 - Causes damage to organs [organs, route]. [SCLs/M-factors/ATEs]: *; STOT SE 1; H370: C ≥ 10 %; STOT SE 2; H371: 3 % ≤ C < 10 % | |
| Phosphotungstic Acid Hydrate (CAS no.: 12501-23-4) | ≤ 0.02 % (weight) |
| CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Hazardous to the aquatic environment, long-term (chronic), Cat. 2; Serious eye damage/eye irritation, Cat. 1; Skin corrosion/irritation, Cat. 1C. HAZARDS: H302 - Harmful if swallowed; H314 - Causes severe skin burns and eye damage; H318 - Causes serious eye damage; H411 - Toxic to aquatic life with long lasting effects. | |

SECTION 4: First-aid measures

Description of necessary first-aid measures

| | |
|-------------------------|--|
| General advice | First Aid Facilities: Maintain eyewash fountain in work area. |
| If inhaled | If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. |
| 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 wash out immediately with water. |
| If swallowed | 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

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Specific Methods: 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

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon oxides

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.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

Methods and materials for containment and cleaning up

Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. Wash area down with excess water.

SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

Safety Data Sheet

O.G.6. Gill

SDS no. 507A00E3 • Version 1.0 • Date of issue: 2023-05-01

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 64-17-5

Ethanol

ACGIH (USA): (ST) 1000 ppm TLV® inhalation; AU/SWA (Australia): 1000 ppm; 1880 mg/m³ TWA inhalation;

CAS: 67-56-1 (EC: 200-659-6)

Methanol

ACGIH: 200 ppm TLV® inhalation; 250 ppm (ST) TLV® inhalation; AU/SWA (Australia): 250 ppm; 328 mg/m³ STEL inhalation; 200 ppm; 262 mg/m³ TWA inhalation;

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

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 comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

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

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

| | |
|--|--------------------|
| Physical state | Liquid |
| Appearance | No data available. |
| Color | Orange |
| Odor | Alcoholic |
| Odor threshold | No data available. |
| Melting point/freezing point | 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. |
| Flash point | 12C (cc) |
| Explosive properties | No data available. |

Safety Data Sheet

O.G.6. Gill

SDS no. 507A00E3 • Version 1.0 • Date of issue: 2023-05-01

| | |
|---|--------------------|
| Auto-ignition temperature | No data available. |
| Decomposition temperature | No data available. |
| Oxidizing properties | No data available. |
| pH | No data available. |
| Kinematic viscosity | No data available. |
| Solubility | Soluble |
| Partition coefficient n-octanol/water (log value) | No data available. |
| Vapor pressure | No data available. |
| Evaporation rate | No data available. |
| Density and/or relative density | No data available. |
| Relative vapor density | No data available. |

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.

Reacts with incompatible materials

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Vapours may form explosive mixture with air.

Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible materials

Ethanol: Alkali metals, Oxidizing agents, Peroxides

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

Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Safety Data Sheet

O.G.6. Gill

SDS no. 507A00E3 • Version 1.0 • Date of issue: 2023-05-01

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

// ----- From the Suggestion report (02/05/2023, 9:41 AM) ----- //
The ATE (dermal) of the mixture is: 3000 mg/kg bw

// ----- From the Suggestion report (02/05/2023, 9:41 AM) ----- //
The ATE (gas inhalation) of the mixture is: 7000 ppmV

// ----- From the Suggestion report (02/05/2023, 9:41 AM) ----- //
The ATE (vapor inhalation) of the mixture is: 30 mg/l

// ----- From the Suggestion report (02/05/2023, 9:41 AM) ----- //
The ATE (oral) of the mixture is: 1000 mg/kg bw

Skin corrosion/irritation

May be irritating to skin. The symptoms may include redness, itching and swelling.

Serious eye damage/irritation

Risk of serious damage to eyes.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity (STOT) - single exposure

Causes damage to organs (Eyes, Central Nervous System)

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard

No data available

Additional information

Ethanol: Stomach - Irregularities - Based on Human Evidence

Methanol: *TOXICITY:
typ. dose mode specie amount units other
LDLo orl hmn 340 mg/kg
TCLo ihl hmn 86000 mg/m3
LDLo unr man 868 mg/kg
LD50 orl rat 5628 mg/kg
LC50 ihl rat 64000 ppm/4H
LD50 ipr rat 9540 mg/kg

Safety Data Sheet

0.G.6. Gill

SDS no. 507A00E3 • Version 1.0 • Date of issue: 2023-05-01

LD50 orl mus 870 mg/kg
LCLo ihl mus 50 gm/m³/2H
LDLo ipr mus 120 mg/kg
LD50 scu mus 9800 mg/kg
LD50 ivn mus 5673 mg/kg
LDLo orl dog 7500 mg/kg
LDLo orl mky 7000 mg/kg
LCLo ihl mky 1000 ppm
LDLo skn mky 500 mg/kg
LCLo ihl cat 44000 mg/m³/6H
LDLo ivn cat 118 mg/kg
LDLo orl rbt 7500 mg/kg
LD50 skn rbt 20 gm/kg
LDLo orl man 13 gm/kg

*AQTX/TLM96: >1000 ppm

*SAX TOXICITY EVALUATION:

THR = A skin, eye irritant. A human inhalation IRRITANT. A human eye irritant. HIGH human oral; HIGH intraperitoneal, intravenous; MODERATE inhalation, oral, skin; LOW skin, oral, inhalation, intraperitoneal, subcutaneous. Methyl alcohol possesses distinct narcotic properties. Coma from massive exposures may last as long as 2-4 days.

*CARCINOGENICITY: Not available

*MUTATION DATA:

test lowest dose | test lowest dose

----- | -----
mmo-smc 12 pph | cyt-smc 500 umol/tube
cyt-grh-par 3000 ppm | dni-hmn:lym 300 mmol/L
dnd-rat-oral 10 umol/kg | cyt-mus-oral 1 gm/kg
cyt-mus-ipr 75 mg/kg | mma-mus:lym 7900 mg/L

*TERATOGENICITY:

Reproductive Effects Data:

TDLo: orl-rat 7500 mg/kg (17-19D preg)
TCLo: ihl-rat 20000 ppm/7H (1-22D preg)
TDLo: ipr-mus 5 gm/kg (5D male)

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z
Transitional Limit: PEL-TWA 200 ppm [610]
Final Limit: PEL-TWA 200 ppm (skin); STEL 250 ppm [610]
ACGIH: TLV-TWA 200 ppm (skin); STEL 250 ppm [610]
NIOSH Criteria Document: Recommended Exposure Limit to this compound-air:
PEL-TWA 200 ppm; Ceiling Limit 800 ppm/15M [610]
NFPA Hazard Rating: Health (H): 1
Flammability (F): 3
Reactivity (R): 0
H1: Materials only slightly hazardous to health (see NFPA for details).
F3: Materials which can be ignited under almost all normal temperature conditions (see NFPA for details).
R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

Safety Data Sheet

O.G.6. Gill

SDS no. 507A00E3 • Version 1.0 • Date of issue: 2023-05-01

*OTHER TOXICITY DATA:

Skin and Eye Irritation Data:

eye-hmn 5 ppm

skn-rbt 500 mg/24H MOD

eye-rbt 40 mg MOD

Review: Toxicology Review-5

Standards and Regulations: DOT-Hazard: Flammable liquid; Label: Flammable liquid

DOT-IMO: Flammable liquid; Label: Flammable liquid,

Poison

Status: "NIOSH Manual of Analytical Methods, 3rd Ed."

Reported in EPA TSCA Inventory, 1983

EPA Genetic Toxicology Program, January 1984

EPA TSCA Section 8(e) Status Report 8EHQ-0378-0108

Meets criteria for proposed OSHA Medical Records Rule

C.I. ACID ORANGE 10: *TOXICITY:

typ. dose mode specie amount units other

Not available

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION:

THR: Experimental reproductive effects. Mutagenic data.

*CARCINOGENICITY:

Review: IARC Cancer Review: Animal Inadequate Evidence

IARC: Not classifiable as a human carcinogen (Group 3) [015,395,610]

Status: NTP Carcinogenesis Studies (Feed); Negative: Male and Female Mouse and Male and Female Rat [015,620]

*MUTATION DATA: See RTECS printout for data

*TERATOGENICITY: See RTECS printout for data

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: None

ACGIH: None

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): None

Flammability (F): None

Reactivity (R): None

*OTHER TOXICITY DATA:

Status: EPA Genetox Program 1988, Inconclusive: B subtilis rec assay;

Histidine reversion-Ames test

EPA TSCA Chemical Inventory, 1986

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

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: 1987

Class: 3

Packing Group: II

Proper Shipping Name: ALCOHOLS, N.O.S. (Ethanol, Methanol)

Marine pollutant: No

Hazchem emergency action code (EAC)

•3YE

IMDG

UN Number: 1987

Class: 3

Packing Group: II

Proper Shipping Name: ALCOHOLS, N.O.S. (Ethanol, Methanol)

Marine pollutant: No

IATA

UN Number: 1987

Class: 3

Packing Group: II

Proper Shipping Name: ALCOHOLS, N.O.S. (Ethanol, Methanol)

Marine pollutant: No

SECTION 15: Regulatory information

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.

Preparation information

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

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', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)