

Safety Data Sheet

AURAMINE STAIN

SDS no. ZGU62UKQ • Version 1.0 • Date of issue: 2023-07-24

- Serious eye damage/eye irritation, Cat. 1
- Flammable liquids, Cat. 3
- Germ cell mutagenicity, Cat. 2
- Skin corrosion/irritation, Cat. 2

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H226	Flammable liquid and vapor
H315	Causes skin irritation
H318	Causes serious eye damage
H341	Suspected of causing genetic defects

Precautionary statement(s)

P202	Do not handle until all safety precautions have been read and understood.
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.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor/physician
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
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.
P405	Store locked up.
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.

Components

Component	CAS no.	Concentration
Ethanol (EC no.: 200-578-6; Index no.: 603-002-00-5)	64-17-5	<= 10 % (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.		
PHENOL (EC no.: 203-632-7; Index no.: 604-001-00-2)	108-95-2	<= 3 % (weight)

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CLASSIFICATIONS: Germ cell mutagenicity, Cat. 2; Acute toxicity, inhalation, Cat. 3; Acute toxicity, dermal, Cat. 3; Acute toxicity, oral, Cat. 3; Specific target organ toxicity following repeated exposure, Cat. 2; Skin corrosion/irritation, Cat. 1B. HAZARDS: H301 - Toxic if swallowed; H311 - Toxic in contact with skin; H314 - Causes severe skin burns and eye damage; H331 - Toxic if inhaled; H341 - Suspected of causing genetic defects [route]; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route]. [SCLs/M-factors/ATEs]: *, Skin Corr. 1B; H314: C ≥ 3 %; Skin Irrit. 2; H315: 1 % ≤ C < 3 %; Eye Irrit. 2; H319: 1 % ≤ C < 3 %

AURAMINE O (EC no.: 219-567-2)

2465-27-2

≤ 0.5 % (weight)

CLASSIFICATIONS: Acute toxicity, dermal, Cat. 3; Acute toxicity, oral, Cat. 4; Carcinogenicity, Cat. 2. HAZARDS: H302 - Harmful if swallowed; H311 - Toxic in contact with skin; H351 - Suspected of causing cancer [route]. [SCLs/M-factors/ATEs]: ATE (oral): 1000 mg/kg; ATE (derm): 300 mg/kg

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	Advice to Doctor: Treat symptomatically based on judgement of doctor and individual reactions of the patient. Gastric lavage carries a severe risk of aspiration into lungs with potential to cause a chemical pneumonitis.
If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
In case of skin contact	Remove contaminated clothing and wash affected skin with soap and water. If rapid recovery does not occur, obtain medical attention
In case of eye contact	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If rapid recovery does not occur, obtain medical attention
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

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.

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

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Caution: Use of water spray when fighting fire may be inefficient.

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

Large fire: Use foam, fog or water spray - Do not use water jets.

If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out.

Avoid getting water inside the containers.

Specific hazards arising from the chemical

May liberate toxic fumes in fire includes oxides of carbon.

Ethanol: Carbon oxides

Special protective actions for fire-fighters

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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

Wear personal protection, including apron, nitrile gloves and safety glasses. Avoid breathing vapours, carry out procedures in well-ventilated area, preferably in a NATA approved /Certified fume cupboard. In case of emergency, evacuate all personnel to a safe area. Contain and manage hazard if safe to do so. In case of fire, See Section 5. For spills see Section 6.3 below.

Methods and materials for containment and cleaning up

Small Spillages: Wear personal protection as described above. Prevent material from spreading by using a suitable absorbent eg. Paper towel, sawdust or vermiculite around edges. Absorb spillage using the same materials. Collect absorbent material and place in a suitable collection container, seal and label as hazardous chemical waste including a description of the content including the pictograms as shown in Section 2.2 along with hazard statements. Dispose of waste through an approved and licensed authority.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Wear appropriate protective clothing, safety glasses, gloves. Wash hands and face thoroughly after working with material. Areas in which people handle this chemical should be equipped with safety showers. Remove contaminated clothing and wash before re-use. Avoid inhalation and ingestion. Under no circumstances eat, drink or smoke while handling this material. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities: Store in tightly closed containers, in a cool, dry, ventilated area away from sources of heat or ignition.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 108-95-2

Phenol

AU/SWA (Australia): 1 ppm; 4 mg/m³ TWA inhalation;

CAS: 64-17-5

Ethanol

ACGIH (USA): (ST) 1000 ppm TLV® inhalation; AU/SWA (Australia): 1000 ppm; 1880 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: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

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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	Yellow liquid.
Color	Yellow
Odor	Faint phenolic/ethanol odour.
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	Approx 100°C at 100kPa.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	49C
Explosive properties	No data available.
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	No data available.
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.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Vapours may form explosive mixture with air.

Conditions to avoid

Temperature extremes.

Incompatible materials

Ethanol: Alkali metals, Oxidizing agents, Peroxides

Hazardous decomposition products

Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness. Carbon dioxide and carbon monoxide acids and acrid smoke.

Fire decomposition products from this product are likely to be harmful if inhaled. Take suitable protective measures.

In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ingestion: Toxic if swallowed. If ingested, severe burns of the mouth and throat, perforation of stomach and/or oesophagus may occur. Ingestion is not a typical route of occupational exposure.

Inhalation: Toxic by inhalation. May cause irritation of nose, throat, respiratory tract and lungs with coughing, burns, breathing difficulty. Breathing vapour or mist may result in digestive disturbances (vomiting, difficulty in swallowing, nausea, vomiting, diarrhoea, loss of appetite). Substance is unlikely to pose an inhalation hazard unless it is heated or misted, as it does not readily form a vapour at room temperature.

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

Skin corrosion/irritation

Corrosive following skin contact. Skin contact and absorption is the most common route of occupational exposure. Repeated contact with dilute solutions or even brief contact with concentrated solutions can pose a risk to life. Readily absorbed through the skin and can cause harmful effects. Signs and symptoms of phenol toxicity develop rapidly and include central nervous system effects, muscle weakness, tremors, loss of coordination, effects on the heart and blood vessels, shock, sudden collapse, coma, convulsions, lung and kidney damage and death.

Serious eye damage/irritation

Risk of serious damage to eyes. Corrosive to the eyes. May cause severe irritation, eye burns, redness, pain, blurred vision and permanent damage, including blindness. Vapours are irritating to eyes.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

Germ cell mutagenicity: Germ Cell Mutagenicity: Category 2 H341 Suspected of causing genetic defects.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

Specific target organ toxicity - Repeated Exposure Category 2

Possible systemic effects, including cardiac, liver and kidney. Possible damage to optic nerve.

Aspiration hazard

No data available.

Additional information

PHENOL: *TOXICITY:

typ. dose mode specie amount units other

LDLo orl inf 10 mg/kg

LDLo orl hmn 14 gm/kg

LDLo orl hmn 140 mg/kg

LD50 orl rat 317 mg/kg

LD50 skn rat 669 mg/kg

LD50 orl mus 270 mg/kg

LDLo orl dog 500 mg/kg

LD50 skn rbt 850 mg/kg

LC50 ihl rat 316 mg/m³

LC50 ihl mus 177 mg/m³

LD50 ipr rat 127 mg/kg

LD50 scu rat 460 mg/kg

LD50 ipr mus 180 mg/kg

LD50 scu mus 344 mg/kg

LD50 ivn mus 112 mg/kg

LDLo par dog 2000 mg/kg

LDLo orl cat 80 mg/kg

LDLo scu cat 80 mg/kg

LDLo par cat 500 mg/kg

LDLo orl rbt 420 mg/kg

LC50 ihl mam 74 mg/m³

LDLo ipr rbt 620 mg/kg

LDLo scu rbt 620 mg/kg

LDLo ivn rbt 180 mg/kg

LDLo par rbt 300 mg/kg

LDLo ipr gpg 300 mg/kg

LDLo scu gpg 450 mg/kg

LDLo scu frg 75 mg/kg

LDLo par frg 290 mg/kg

LDLo scu frg 290 mg/kg

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION:

THR: Human poison by ingestion. An experimental poison by ingestion, subcutaneous, intravenous, parenteral and intraperitoneal routes.

Moderately toxic by skin contact. A severe eye and skin irritant.

An experimental carcinogen and neoplastigen. Human mutagenic data.

Absorption of phenolic solutions through the skin may be very rapid,

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and can cause death within 30 minutes to several hours by exposure of as little as 64 square inches of skin. A common air contaminant.

*CARCINOGENICITY:

Tumorigenic Data:

TDLo: skn-mus 16 gm/kg/40W-I

TD : skn-mus 4000 mg/kg/24W-I

Review: IARC Cancer Review: Human Inadequate Evidence

IARC Cancer Review: Animal Inadequate Evidence

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

Status: NCI Carcinogenesis Bioassay (Water); Negative: Male and Female Rat, Male and Female Mouse [620]

*MUTATION DATA:

test lowest dose | test lowest dose

----- | -----

sce-hmn:lym 5 umol/L | mrc-asn 15 umol/L

dnd-mam:lym 250 mmol/L | dni-mus-ori 20 gm/kg

mma-sat 40 umol/plate | dni-hmn:hla 1 mmol/L

cyt-ofs-mul 300 nL/L | oms-hmn:hla 17 mg/L

oms-hmn:lym 5 umol/L | oms-rbt:bmr 250 umol/L

dni-mus:lym 800 umol/L | dns-rat-ori 4 gm/kg

sln-dmg:ovr 100 ppm |

*TERATOGENICITY:

Reproductive Effects Data:

TDLo: ipr-rat 600 mg/kg (12-14D preg)

TDLo: ori-rat 300 mg/kg (6-15D preg)

TDLo: ori-rat 1200 mg/kg (6-15D preg)

TDLo: ori-mus 2300 mg/kg (6-15D preg)

TDLo: ori-mus 2600 mg/kg (6-15D preg)

TDLo: ori-mus 2800 mg/kg (6-15D preg)

TDLo: ori-mus 4 gm/kg (6-15D preg)

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z

Transitional Limit: PEL-TWA 5 ppm (skin) [610]

Final Limit: PEL-TWA 5 ppm (skin) [610]

ACGIH: TLV-TWA 5 ppm (skin) [015,415,421,610]

NIOSH Criteria Document: Recommended Exposure Limit to this compound-air:

TWA 20 mg/m³; Ceiling Limit 60 mg/m³/15M [015]

NFPA Hazard Rating: Health (H): 3

Flammability (F): 2

Reactivity (R): 0

H3: Materials extremely hazardous to health but areas may be entered with extreme care (see NFPA for details).

F2: Materials which must be moderately heated before ignition will occur (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).

*OTHER TOXICITY DATA:

Skin and Eye Irritation Data:

skn-rbt 500 mg/24H SEV

skn-rbt 535 mg open SEV

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eye-rbt 5 mg SEV
eye-rbt 5 mg/30S rns MLD
skn-rbt 100 mg MLD
Review: Toxicology Review-5
Standard and Regulations: DOT-Hazard: Poison B; Label: Poison
DOT-Hazard: Poison B; Label: Poison, liquid
DOT-IMO: Poison B; Label: Poison
Status: EPA Genetox Program 1986, Negative: N crassa-reversion
EPA TSCA Chemical Inventory, 1986
EPA TSCA Test Submission (TSCATS) Data Base, March 1988
NIOSH Analytical Methods: see Phenol, 3502; Phenol and p-Cresol
in urine, 8305
Meets criteria for proposed OSHA Medical Records Rule

AURAMINE O: *TOXICITY:

typ. dose mode specie amount units other
LD50 ipr rat 135 mg/kg
LD50 orl cat 150 mg/kg
LD50 orl dom 150 mg/kg
LDLo orl rat 1500 mg/kg
LD50 orl mus 480 mg/kg
LD50 skn mus 300 mg/kg

*AQTX/TLM96: Not available

***SAX TOXICITY EVALUATION:**

THR: MUTATION data. An experimental neoplastigen and equivocal tumorigenic agent. HIGH via skin and oral routes. MODERATE via oral route. A chelating agent which might disturb trace element metabolism if taken into the body.

***CARCINOGENICITY:**

Tumorigenic Data:
TDLo: orl-mus 73 gm/kg/52W-C
TDLo: orl-rat 40 gm/kg/87W-C
TDLo: scu-rat 440 mg/kg/21W-I
Status: EPA Carcinogen Assessment Group [610]

***MUTATION DATA:**

test lowest dose	test lowest dose
cyt-ham:ovr 20 umol/L/5H-C | dnd-esc 30 ppm
dnd-hmn:fbr 300 umol/L | dnd-mus-ipr 15 mg/kg
dnd-rat-ipr 9 mg/kg | dnd-rat:lvr 3 umol/L
dnr-esc 250 ug/disc | mma-sat 2 mg/plate
sce-mus-ipr 7500 ug/kg |

***TERATOGENICITY:**

Reproductive Effects Data: Not available

***STANDARDS, REGULATIONS & RECOMMENDATIONS:**

OSHA: None
ACGIH: None

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NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): None
Flammability (F): None
Reactivity (R): None

*OTHER TOXICITY DATA:

Status: EPA Genetox Program 1986, Positive: E coli polA without S9;
S cerevisiae-homozygosis
EPA Genetox Program 1986, Positive/limited: Carcinogenicity-mouse/rat
EPA Genetox Program 1986, Negative: Histidine reversion-Ames test
EPA Genetox Program 1986, Inconclusive: SHE-clonal assay; Mammalian
micronucleus
EPA TSCA Chemical Inventory, 1986
Meets criteria for proposed OSHA Medical Records Rule

Ethanol: Stomach - Irregularities - Based on Human Evidence

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

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ADG (Road and Rail)

UN Number: 2810

Class: 6.1

Packing Group: III

Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. (CONTAINS PHENOL)

Environmental Hazards: Toxic for aquatic organisms. Toxic effect on fish and plankton. Forms toxic mixtures in water, dilution measures notwithstanding. Change in the flavour characteristics of fish protein. Endangers drinking-water supplies if allowed to enter soil or water.

Hazchem emergency action code (EAC)

2X

IMDG

UN Number: 2810

Class: 6.1

Packing Group: III

EMS Number:

Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. (CONTAINS PHENOL)

IATA

UN Number: 2810

Class: 6.1

Packing Group: III

Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. (CONTAINS PHENOL)

SECTION 15: Regulatory information

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

Australia SUSMP

Poison Schedule: S6

SECTION 16: Other information

Further information/disclaimer

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Preparation information

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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.

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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)