

GHS classification in accordance with: UN GHS revision 7

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

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. |
| P264 | Wash hands thoroughly after handling. |
| 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. |
| 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	8 % (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	3.2 % (weight)
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	0.4 % (weight)
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Carcinogenicity, Cat. 2; Serious eye damage/eye irritation, Cat. 2A. HAZARDS: H302 - Harmful if swallowed; H319 - Causes serious eye irritation; 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	First Aid Facilities: Maintain eyewash fountain in work area.
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

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) 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

Hazards from Combustion Products: May liberate toxic fumes in fire includes oxides of carbon.

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

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

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

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

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.

Body protection

Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

Usually not required.

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing 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. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Yellow liquid.
Color	No data available.
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	6-12
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	Approx 1
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

Hazardous Polymerization: Will not occur.

Conditions to avoid

Temperature extremes.

Incompatible materials

Strong oxidizing agents

Strong acids

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.

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.

Skin corrosion/irritation

Causes skin irritation. May cause an allergic skin reaction. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

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

Category 2 H341 Suspected of causing genetic defects.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

Safety Data Sheet
AURAMINE 0.3% PHENOL

SDS no. 1JC1REMG • Version 1.0 • Date of issue: 2024-10-23

Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

Aspiration hazard

Not classified based on available information.

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, 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.

Safety Data Sheet

AURAMINE 0.3% PHENOL

SDS no. 1JC1REMG • Version 1.0 • Date of issue: 2024-10-23

*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

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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

eye-rbt 5 mg SEV

Safety Data Sheet
AURAMINE 0.3% PHENOL

SDS no. 1JC1REMG • Version 1.0 • Date of issue: 2024-10-23

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

Safety Data Sheet

AURAMINE 0.3% PHENOL

SDS no. 1JC1REMG • Version 1.0 • Date of issue: 2024-10-23

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 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

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: 3267
Class: 8
Packing Group: II
Proper Shipping Name: CORROSIVE LIQUID, BASIC, 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: 3267
Class: 8
Packing Group: II
Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Contains Phenol)

IATA

UN Number: 3267

Class: 8

Packing Group: II

Proper Shipping Name: CORROSIVE LIQUID, BASIC, 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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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)