

SAFETY DATA SHEET AURAMINE PHENOL

According to Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name AURAMINE PHENOL
Product No. PL.7033, PL.7034, PL.7035, PL.7033/25

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory reagent.

1.3. Details of the supplier of the safety data sheet

Supplier Pro-Lab Diagnostics
3 Bassendale Road
Wirral
Merseyside
CH62 3QL
Tel: 0151 353 1613
Fax: 0151 353 1614
mowen@pro-lab.com

1.4. Emergency telephone number

+44 (0)151 353 1613 Monday to Friday 9.00 to 17.00
+44 (0)7714 429 646 outside the above hours

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xn;R20/21/22. Muta Cat. 3;R68. C;R34.

Human health

Causes burns. Harmful by inhalation, in contact with skin and if swallowed. Possible risk of irreversible effects. See section 11 for additional information on health hazards.

2.2. Label elements

Contains PHENOL

Labelling



Corrosive



Harmful

Risk Phrases

| | |
|-----------|---|
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R34 | Causes burns. |
| R68 | Possible risk of irreversible effects. |

Safety Phrases

| | |
|-----------|---|
| S24/25 | Avoid contact with skin and eyes. |
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S36/37/39 | Wear suitable protective clothing, gloves and eye/face protection. |
| S45 | In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). |
| S51 | Use only in well-ventilated areas. |
| S60 | This material and its container must be disposed of as hazardous waste. |

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

AURAMINE PHENOL

3.2. Mixtures

| | |
|--|--|
| AURAMINE O < 1% | |
| CAS-No.: 2465-27-2 | EC No.: 219-567-2 |
| Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 3 - H311 Carc. 1A - H350, H351 Carc. 2 - H350, H351 | Classification (67/548/EEC) Carc. Cat. 1;R45. Xn;R22. Carc. Cat. 3;R40. |
| ETHANOL 1-5% | |
| CAS-No.: 64-17-5 | EC No.: 200-578-6 |
| Classification (EC 1272/2008) Flam. Liq. 2 - H225 | Classification (67/548/EEC) F;R11 |
| METHANOL < 1% | |
| CAS-No.: 67-56-1 | EC No.: 200-659-6 |
| Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370 | Classification (67/548/EEC) F;R11 T;R23/24/25,R39/23/24/25 |
| PHENOL 1-5% | |
| CAS-No.: 108-95-2 | EC No.: 203-632-7 |
| Classification (EC 1272/2008) Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Muta. 2 - H341 STOT RE 2 - H373 | Classification (67/548/EEC) Muta. Cat. 3;R68 T;R23/24/25 C;R34 Xn;R48/20/21/22 |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

Ingestion

Get medical attention immediately! Do not induce vomiting. Immediately rinse mouth and provide fresh air.

Skin contact

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention promptly if symptoms occur after washing.

AURAMINE PHENOL

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation.

Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact

Prolonged contact may cause redness, irritation and dry skin.

Eye contact

May irritate eyes.

4.3. Indication of any immediate medical attention and special treatment needed

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

During fire, toxic gases (CO, CO₂) are formed.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Move container from fire area if it can be done without risk. Use water spray to reduce vapours. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Stop leak if possible without risk. DO NOT touch spilled material! Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Wash hands after handling.

7.2. Conditions for safe storage, including any incompatibilities

AURAMINE PHENOL

Store in tightly closed original container in a dry and cool place. Keep in original container.

Storage Class

Toxic storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Name | STD | TWA - 8 Hrs | | STEL - 15 Min | | Notes |
|----------|-----|-------------|------------------------|---------------|-----------------------|-------|
| | | | | | | |
| ETHANOL | WEL | 1000 ppm | 1920 mg/m ³ | | | |
| METHANOL | WEL | 200 ppm | 266 mg/m ³ | 250 ppm | 333 mg/m ³ | Sk |
| PHENOL | WEL | 2 ppm | 7,8 mg/m ³ | 4 ppm | 16 mg/m ³ | Sk |

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

8.2. Exposure controls

Protective equipment



Hand protection

Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear approved safety goggles.

Other Protection

Provide eyewash station.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|------------|-------------------|
| Appearance | Liquid |
| Colour | Yellow. |
| Odour | Odour of alcohol. |
| Solubility | Soluble in water. |

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

AURAMINE PHENOL

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

During fire, toxic gases (CO, CO₂) are formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Other Health Effects

Mutagen Category 3. Possible risk of irreversible effects.

General information

Known or suspected carcinogen for humans.

Inhalation

Not relevant at normal room temperatures. When heated, toxic vapours may be formed.

Ingestion

Harmful if swallowed. Causes burns.

Skin contact

Harmful in contact with skin. Causes burns.

Eye contact

Causes burns.

Toxicological information on ingredients.

METHANOL (CAS: 67-56-1)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 1187 mg/kg Rat

REACH dossier information

Acute Toxicity (Inhalation LC50)

> 115.9 mg/l (vapours) Rat 4 hours

REACH dossier information

ETHANOL (CAS: 64-17-5)

Acute toxicity:

Acute Toxicity (Oral LD50)

10470 mg/kg Rat

REACH dossier information

Acute Toxicity (Inhalation LC50)

116.9 mg/l (vapours) Rat 4 hours

REACH dossier information

AURAMINE PHENOL

PHENOL (CAS: 108-95-2)

Acute toxicity:

Acute Toxicity (Oral LD50)

340 mg/kg Rat

REACH dossier information

Acute Toxicity (Dermal LD50)

0.625 mg/kg Rat

REACH dossier information

AURAMINE O (CAS: 2465-27-2)

Acute toxicity:

Acute Toxicity (Oral LD50)

480 mg/kg Mouse

Miscellaneous reference sources.

Acute Toxicity (Dermal LD50)

300 mg/kg Mouse

Miscellaneous reference sources.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

AURAMINE PHENOL

Ecological information on ingredients.

METHANOL (CAS: 67-56-1)

96 hours 15400 mg/l Lepomis macrochirus (Bluegill)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 10000 mg/l Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 96 hours ~ 22000 mg/l Freshwater algae

REACH dossier information

ETHANOL (CAS: 64-17-5)

Acute Toxicity - Fish

LC50 96 hours 14.2 mg/l Pimephales promelas (Fat-head Minnow)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 5012 mg/l Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 72 hours 275 mg/l Freshwater algae

REACH dossier information

PHENOL (CAS: 108-95-2)

Acute Toxicity - Fish

LC50 96 hours 8.9 mg/l Onchorhynchus mykiss (Rainbow trout)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 3.1 mg/l Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 96 hours 61.1 mg/l Freshwater algae

REACH dossier information

AURAMINE O (CAS: 2465-27-2)

48 hours 3.2 mg/l Oryzias latipes (Red killifish)

Miscellaneous reference sources.

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

Ecological information on ingredients.

METHANOL (CAS: 67-56-1)

Biodegradation

Water Degradation (71.5%) 5 days

REACH dossier information

Degradation (95%) 20 days

REACH dossier information

ETHANOL (CAS: 64-17-5)

Biodegradation

Water Degradation (96%) 20 days

REACH dossier information

PHENOL (CAS: 108-95-2)

Biodegradation

Water Degradation (86%) 20 days

REACH dossier information

The substance is readily biodegradable.

12.3. Bioaccumulative potential

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Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Not determined.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

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EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

Updated STEL for Phenol.

Revision Date 01-2012

Revision 5

Supersedes date 11-2011

Risk Phrases In Full

R34 Causes burns.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R22 Harmful if swallowed.
R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R11 Highly flammable
R40 Limited evidence of a carcinogenic effect.
R68 Possible risk of irreversible effects.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R24 Toxic in contact with skin.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Hazard Statements In Full

H370 Causes damage to organs <<Organs>>.
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H225 Highly flammable liquid and vapour.
H350 May cause cancer.
H373 May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H351 Suspected of causing cancer.
H341 Suspected of causing genetic defects.
H331 Toxic if inhaled.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.

Disclaimer

The information in this safety data sheet was obtained from current and reliable sources. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Pro-Lab Diagnostics control, it is the users responsibility to perform thorough testing of this product when used in combination with any other product. It is suggested that users familiarise themselves with this safety data sheet before handling the product.