1. Identification

GHS Product Identifier: AURAMINE O Stain

Company Name: CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

Address: 38 - 50 Bedford Street GILLMAN
          SA 5013  Australia

Telephone/Fax Number: Tel: (08) 8440-2000
                      Fax: (08) 8440-2001

Emergency phone number: CHEMCALL  1800 127 406 (Australia) / +64-4-917-9888 (International)

Recommended use of the chemical and restrictions on use

Auramine O is a diarylmethane dye used as a fluorescent stain.

Other Names:

- AL089
- 2,4,4’-(Imidocarbonyl)bis(N,N-dimethylaniline) monohydrochloride,
- C.I. 41000, Basic Yellow 2, Auramine hydrochloride, Canary Yellow,
- bis[4-(dimethylamino)phenyl]methaniminium chloride

Chem-Supply 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 Chem-Supply 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 Chem-Supply 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.

2. Hazard Identification

Carcinogenicity: Category 2
Eye Damage/Irritation: Category 2A
Acute Toxicity - Oral: Category 4

Hazard Statement(s):
- H351 Suspected of causing cancer.
- H319 Causes serious eye irritation.
- H302 Harmful if swallowed.

Pictogram(s):
- Exclamation mark, Health hazard,

Precautionary statement – Prevention:
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.

Precautionary statement – Response:
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
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Precautionary statement – Disposal
P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Characterization</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
<th>Hazard Symbol</th>
<th>Risk Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredients</td>
<td>Auramine-o</td>
<td>2465-27-2</td>
<td>100 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation
If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion
Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Skin
Wash affected areas with copious quantities of water immediately for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention if irritation develops or persists.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. If rapid recovery does not occur, obtain medical attention.

First Aid Facilities
Maintain eyewash fountain and safety shower in work area.

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

Other Information
For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Suitable extinguishing media
Alcohol resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Hazchem Code
2X

Decomposition Temp.
250 ºC

6. Accidental release measures

Personal Precautions
Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Personal Protection
Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages
Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling
Wash hands and face thoroughly after working with material. Use with adequate ventilation. Avoid generation or accumulation of dusts. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation of material. Keep container tightly closed when not in use.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed. Keep in a cool, dry, well-ventilated place. Store away from incompatible substances.

Storage Regulations
Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.

8. Exposure controls/personal protection

Other Exposure Information
No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m³. All atmospheric contamination should be kept to as low a level as is workable.

In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.

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. 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.

Eye Protection
The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.

Hand Protection
Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.

Personal Protective Equipment
Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

Footwear
Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection
Appropriate protective clothing.

Hygiene Measures
Wash hands before eating, drinking, smoking and using the toilet.

9. Physical and chemical properties

Form
Solid

Appearance
Yellow-green powder.

Odour
Odourless

Decomposition Temperature
250 °C

Melting Point
267 °C

Solubility in Water
Soluble
10 g/l at 20°C

Specific Gravity
Negligible

Vapour Pressure
Negligible

Molecular Weight
303.83

10. Stability and reactivity

Chemical Stability
Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid

Incompatible Materials
Strong oxidising agents.

Hazardous Decomposition Products
Hydrogen chloride, carbon monoxide, oxides of nitrogen, carbon dioxide

Hazardous Polymerization
Has not been reported.

11. Toxicological Information

Acute Toxicity - Oral
Mouse LD50 = 480mg/kg

Acute Toxicity - Dermal
Mouse LD50 = 300 mg/kg

Ingestion
May cause irritation of the digestive tract.

Inhalation
May cause irritation to the respiratory tract.

Skin
May cause skin irritation.

Eye
May cause irritation. May cause irreversible eye injury.

Carcinogenicity
Auramine (492-80-8) IARC group 2B: No data available on human carcinogenicity, however sufficient evidence of carcinogenicity in animals.
Carcinogenicity: Category 2: H351 Suspected of causing cancer.

Health Hazard
Suspected Gastrointestinal or Liver Toxicant
Chronic Effects: May cause cancer according to animal studies

Mutagenicity: No evidence of mutagenic properties.

12. Ecological information

Persistence and degradability: Will slowly biodegrade but not bioconcentrate.

Environmental Fate - Acute Toxicity - Other Organisms:

Terrestrial: May undergo covalent chemical bonding with humic materials which can result in its chemical alteration to a latent form and tight adsorption. When covalently bound in this latent form, leaching in soil systems is not expected to occur.

Aquatic: May undergo covalent bonding with humic materials in the water column and sediment.

Atmospheric: Particulate phase auramine hydrochloride will probably be removed from air via dry deposition, or degraded in air by photolysis based on its UV spectrum.

13. Disposal considerations

Disposal Considerations: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information:

Dangerous Goods of Class 6 Toxic and Infectious Substances are incompatible in a placard load with any of the following: - Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, and are incompatible with food packaging in any quantity.

U.N. Number: 2811

UN proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.

Transport hazard class(es): 6.1

Hazchem Code: 2X

Packaging Method: 3.8.6.1

Packing Group: III

EPG Number: 6B5

IERG Number: 36

15. Regulatory information

Regulatory Information:

Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Poisons Schedule: Not Scheduled

16. Other Information

Literature References:

'Standard for the Uniform Scheduling of Medicines and Poisons ', Commonwealth of Australia.


Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.

Safe Work Australia, 'Hazardous Chemical Information System, 2005'.

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.


Contact Person/Point:

Paul McCarthy Ph. (08) 8440 2000  DISCLAIMER STATEMENT:

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
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Empirical Formula & Structural Formula

C17H22N3Cl

...End Of MSDS...