

# **MATERIAL SAFETY DATA SHEET (SDS/MSDS)**

**AURAMIN FOR MICROSCOPY**

**CAS-No.: 2465-27-2**

**Product Code: 00313**

**Molecular Formula: C<sub>17</sub>H<sub>22</sub>N<sub>3</sub>Cl**

**Chemnovo**  
DRIVEN BY CHEMISTRY, DEFINED BY PRECISION

**CHEMNOVO SYNTHESIS PVT LTD.**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Substance  
Trade name : Auramin For Microscopy  
EC-No. : 219-567-2  
CAS No : 2465-27-2  
Synonyms : Basic Yellow 2 / Pyoctaninium aureum

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Company : Chemnovo Synthesis Pvt Ltd.  
N-226 Near Kumbhavali Naka  
Tarapur MIDC, Boisar-401 506  
Palghar, Maharashtra  
Telephone : +91 7400096089  
Email: export@chemnovo.in

**1.4. Emergency telephone number**

Emergency number : + 91 7400096089 (9:00am - 6:00 pm)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H302

Category 4

Acute toxicity (dermal), H311

Category 3

Carcinogenicity, Category H351

2

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.3; R40

T; R24

Xn; R22

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

**2.2. Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS06



GHS08

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H302 - Harmful if swallowed.

H311 - Toxic in contact with skin.

H351 - Suspected of causing cancer.

Precautionary statements (CLP) :

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P312 - Call a POISON CENTER/doctor if you feel unwell.

**2.3. Other hazards**

No additional information available

**SECTION 3: Composition/information on ingredients****3.1. Substance**

Name : Auramin For Microscopy  
CAS-No. : 2465-27-2  
EC-No. : 219-567-2

Full text of R- and H-statements: see section 16

**3.2. Mixture**

Not applicable

**SECTION 4: First aid measures****4.1. Description of first aid measures**

First-aid measures after ingestion : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
First-aid measures after skin contact : Wash with plenty of water/.... Get medical advice/attention. Wash contaminated clothing before reuse.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.  
First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

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

Symptoms/effects after skin contact : Toxic in contact with skin.

Symptoms/effects after ingestion : Harmful if swallowed.

Chronic symptoms : May cause cancer.

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

No additional information available

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

**5.2. Special hazards arising from the substance or mixture**

No additional information available

**5.3. Advice for firefighter**

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

Protective equipment : Use personal protective equipment as required..

Emergency procedures : Ventilate area.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

**6.4. Reference to other sections**

No additional information available

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Store in original container. Store in a dry place. Protect from moisture.

**7.3. Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

No additional information available

**8.2. Exposure controls**

Hand protection	:	Protective gloves
Eye protection	:	Chemical goggles or safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	[In case of inadequate ventilation] wear respiratory protection.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	:	Solid
Colour	:	Yellow powder
Odour	:	No data available
Odour threshold	:	No data available
pH	:	6.5
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	> 250 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	Water: 10 g/l at 20 °C
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

**9.2. Other information**

No additional information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No additional information available

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No additional information available

**10.4. Conditions to avoid**

Moisture. Air contact. Overheating.

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

No additional information available

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute toxicity	:	Oral: Harmful if swallowed. Dermal: Toxic in contact with skin.
Skin corrosion/irritation	:	Not classified
pH	:	6.5
Serious eye damage/irritation	:	Not classified
pH	:	6.5
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Suspected of causing cancer.
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Potential adverse human health effects and symptoms	:	Harmful if swallowed. Toxic in contact with skin.

**SECTION 12: Ecological information****12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Product/Packaging disposal recommendations	:	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials	:	Hazardous waste due to toxicity.

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / AND

**14.1. UN number**

UN-No. (ADR)	:	2811
UN-No. (IMDG)	:	2811
UN-No.(IATA)	:	2811
UN-No.(AND)	:	2811
UN-No. (RID)	:	2811

**14.2. UN proper shipping name**

Proper Shipping Name (ADR)	:	TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (IMDG)	:	TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (IATA)	:	TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (ADN)	:	TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (RID)	:	TOXIC SOLID, ORGANIC, N.O.S.
Transport document description (ADR)	:	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III, (E)
Transport document description (IMDG)	:	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III
Transport document description (IATA)	:	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III
Transport document description (ADN)	:	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III
Transport document description (RID)	:	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III

**14.3. Transport hazard class(es)**

ADR

Transport hazard class(es) (ADR)	:	6.1
Danger labels (ADR)	:	6.1



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Transport hazard class(es) (IMDG) : 6.1

Danger labels (IMDG) : 6.1

:

**IATA**

Transport hazard class(es) (IATA) : 6.1

Hazard labels (IATA) : 6.1

:

**AND**

Transport hazard class(es) (ADN) : 6.1

Danger labels (ADN) : 6.1

:

**RID**

Transport hazard class(es) (RID) : 6.1

Danger labels (RID) : 6.1

:

**14.4. Packing group**

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Packing group (ADR)	:	III
Packing group (IMDG)	:	III
Packing group (IATA)	:	III
Packing group (ADN)	:	III
Packing group (RID)	:	III

**14.5. Environmental hazards**

Dangerous for the environment	:	No
Marine pollutant	:	No
Other information	:	No supplementary information available

**14.6. Special precautions for user****- Overland transport**

Classification code (ADR)	:	T2
Special provisions (ADR)	:	274, 614
Limited quantities (ADR)	:	5kg
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P002, IBC08, LP02, R001
Special packing provisions (ADR)	:	B3
Mixed packing provisions (ADR)	:	Mp10
Portable tank and bulk container instructions (ADR)	:	T1

Portable tank and bulk container special provisions (ADR)	:	Tp33
Tank code (ADR)	:	SGAH, L4BH
Tank special provisions (ADR)	:	TU15, Te19
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Special provisions for carriage - Bulk (ADR)	:	VC1, VC2, Ap7

Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV13, Cv28
Special provisions for carriage - Operation (ADR)	:	S9

Hazard identification number (Kemler No.)	:	60
Orange plates	:	60

Orange plates	:	2811
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Tunnel restriction code (ADR)	:	E
EAC code	:	2X
- Transport by sea	:	
Special provision (IMDG)	:	223, 274

**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****AURAMIN FOR MICROSCOPY****CAS-No.: 2465-27-2**

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Packing instructions (IMDG)	:	P002
IBC packing instructions (IMDG)	:	IBC08
IBC special provisions (IMDG)	:	B3
Tank instructions (IMDG)	:	T1
Tank special provisions (IMDG)	:	Tp33
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-A
Stowage category (IMDG)	:	A
Properties and observations (IMDG)	:	Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	:	154
- Air transport		
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y645
PCA limited quantity max net quantity (IATA)	:	10kg
PCA packing instructions (IATA)	:	670
PCA max net quantity (IATA)	:	100kg
CAO packing instructions (IATA)	:	677
CAO max net quantity (IATA)	:	200kg
Special provisions (IATA)	:	A3, A5
ERG code (IATA)	:	6L
- Inland waterway transport		
Classification code (ADN)	:	T2
Special provisions (ADN)	:	274, 614, 802
Limited quantities (ADN)	:	5 kg
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	T
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0
- Rail transport		
Classification code (RID)	:	T2
Special provisions (RID)	:	274, 614
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P002, IBC08, LP02, R001
Special packing provisions (RID)	:	B3
Mixed packing provisions (RID)	:	Mp10
Portable tank and bulk container instructions (RID)	:	T1
Portable tank and bulk container special provisions (RID)	:	Tp33
Tank codes for RID tanks (RID)	:	SGAH, L4BH
Special provisions for RID tanks (RID)	:	Tu15
Transport category (RID)	:	2

Special provisions for carriage – Bulk : VC1, VC2, Ap7  
(RID)

Special provisions for carriage – Loading,  
unloading and handling (RID) : CW13, CW28, Cw31  
Colis express (express parcels) (RID) : Ce11  
Hazard identification number (RID) : 60

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Auramin For Microscopy is not on the REACH Candidate List

Auramin For Microscopy is not on the REACH Annex XIV List

**15.1.2. National regulations****Germany**

12th Ordinance Implementing the Federal  
Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Netherlands**

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen – Ontwikkeling

**Denmark**

Recommendations Danish Regulation :

Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment  
Authorities regarding work with carcinogens must be followed  
during use and disposal

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

Full text of R-, H- and EUH-statements:

**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****AURAMIN FOR MICROSCOPY****CAS-No.: 2465-27-2**

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H351	Suspected of causing cancer.
R22	Harmful if swallowed
R24	Toxic in contact with skin
R40	Limited evidence of a carcinogenic effect
T	Toxic
Xn	Harmful

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.chemnovo.in](http://www.chemnovo.in) for additional terms and conditions of sale.

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