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## **MATERIAL SAFETY DATA SHEET**

### **FAST GREEN (For Microscopy) (C.I.NO.42000) MSDS CAS : 2437-29-8**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name : FAST GREEN (For Microscopy)**

**CAS#: 2437-29-8**

**C.I. No.: 42000**

**Synonym : Malachite Green**

**Chemical Name: Not available.**

**Chemical Formula: C<sub>52</sub>H<sub>54</sub>N<sub>4</sub>O<sub>12</sub>**

**Molecular Weight: 927.02**

**Brand: OXFORD**

##### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification: OXFORD LAB FINE CHEM LLP  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
Mumbai, Maharashtra, INDIA.  
Tel: 91-250-2390989  
Tel/Fax: 91-250-2390032**

#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

Name	CAS #	% by Weight
Fast Green	2437-29-8	100

## Section 3: Hazards Identification

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1999/45

Classification : Xn; R22  
Xi; R41  
N; R50-53

#### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302  
Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318

Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning  
(CLP: Aquatic Acute 1) H400  
Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning  
(CLP : Aquatic Chronic 1) H410

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## Section 4: First Aid Measures

### Description of first aid measures:

**Inhalation:**Assure fresh air breathing. Allow the victim to rest.

**Skin contact:**Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**Eye contact:**Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

**Ingestion :** Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.

## Section 4: First Aid Measures (Continued)

### Most important symptoms and effects, both acute and delayed:

**Symptoms relating to use :** Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

### Indication of any immediate medical attention and special treatment needed:

**General information :** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## Section 5: Fire and Explosion Data

### Extinguishing media:

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

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

**Surrounding fires :** Use water spray or fog for cooling exposed containers.

### Special hazards arising from the substance or mixture:

**Hazardous combustion products:** Under fire conditions, hazardous fumes will be present.

### Advice for fire-fighters:

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

**Special procedures :** Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures:

**For emergency responders :** Equip cleanup crew with proper protection.  
Ventilate area.

**For non-emergency personnel :** Evacuate unnecessary personnel.

## Section 6: Accidental Release Measures (Continued)

### Environmental precautions:

**Environmental precautions:** Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### Methods and materials for containment and cleaning up:

**Clean up methods :** On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

**Reference to other sections:** See section 8. Exposure controls/personal protection

## Section 7: Handling and Storage

### Precautions for safe handling:

**Handling :** Wash thoroughly after handling.

**Technical protective measures:** Provide good ventilation in process area to prevent formation of vapour.

### Conditions for safe storage, including any incompatibilities:

**Storage:** Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

**Storage - away from:** Strong bases. Strong acids. Sources of ignition. Direct sunlight.

### Specific end uses:

**Specific end use(s):** None.

## Section 8: Exposure Controls/Personal Protection

**Personal protection:** Avoid all unnecessary exposure.

- **Respiratory protection:** Wear approved mask.
- **Hand protection:** Wear protective gloves.
- **Eye protection:** Chemical goggles or safety glasses.
- **Others:** When using, do not eat, drink or smoke.

### Control parameters:

**Occupational Exposure Limits:** No data available.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state at 20 °C	: Solid
Colour	: Green crystalline powder
Odour	: Odorless
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 1640 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: N/A
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: N/A
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: soluble in water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

### Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

## Section 10: Stability and Reactivity Data

**Reactivity :** Not established.

**Chemical stability :** Stable under recommended storage conditions.

**Possibility of hazardous reactions:**

**Hazardous reactions :** Not established.

**Conditions to avoid:**

**Conditions to avoid :** Direct sunlight. Extremely high or low temperatures.

**Incompatible materials:**

**Materials to avoid :** Strong acids. Strong bases.

**Hazardous decomposition products:**

**Hazardous decomposition products :** Fumes. Carbon monoxide. Carbon dioxide.

## Section 11: Toxicological Information

**Information on toxicological effects:**

**Acute toxicity**

- **Inhalation** : Based on available data, the classification criteria are not met.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Harmful if swallowed.
- Corrosion** : Causes serious eye damage.
- Irritation** : Based on available data, the classification criteria are not met.
- Sensitization** : Based on available data, the classification criteria are not met.
- Mutagenicity** : Based on available data, the classification criteria are not met.
- Carcinogenicity** : Based on available data, the classification criteria are not met.
- Toxic for reproduction** : Based on available data, the classification criteria are not met.
- STOT-single exposure** : Based on available data, the classification criteria are not met.
- STOT-repeated exposure** : Based on available data, the classification criteria are not met.
- Aspiration hazard** : Based on available data, the classification criteria are not met.

## Section 12: Ecological Information

**Toxicity information :** Very toxic to aquatic life with long lasting effects.

**Persistence - degradability :** May cause long-term adverse effects in the environment.

**Bioaccumulative potential :** Not established.

**Mobility in soil :** Not established.

**Results of PBT and vPvB assessment :** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### Other adverse effects:

**Environmental precautions :** Avoid release to the environment.

## Section 13: Disposal Considerations

### Waste treatment methods

**General :** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

## Section 14: Transport Information

### Land transport (ADR-RID)

UN N°	: 2811
H.I. nr	: 60
ADR – Class	: 6.1
Labelling – Transport	: 6.1 : Toxic substances.
ADR - Group : III	

## Section 14: Transport Information (Continued)

### Sea transport (IMDG) [English only]

UN N°	: 2811
IMO-IMDG - Class or division	: 6.1 : Toxic substances.
IMO-IMDG - Packing group	: III

### Air transport (ICAO-IATA) [English only]

UN N°	: 2811
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: III

## Section 15: Other Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture:

**Safety, health and environmental : Ensure all national/local regulations are observed.  
regulations/legislation specific for  
the substance or mixture**

**REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.**

**REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.**

### Chemical Safety Assessment:

**Chemical Safety Assessment : It has not been carried out.**

## Section 16 - Additional Information

**References: Not available.**

**Other Special Considerations: Not available.**

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