OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

Murashige and Skoog Agar Base

Section 1: Chemical Product and Company Identification

Product Identifiers

Product Name: Murashige and Skoog Agar Base

Relevant identified uses of the substance or mixture and uses advised against Identified Uses :

Plant tissue culture media, used for in vitro generation of plants.

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: **OXFORD LAB FINE CHEM LLP**
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No Significant Hazard

2.2 Label elements

No Significant Hazard

2.3 Other hazards

Combustible dusts: May form combustible dust concentrations in air. Dust may be irritating if inhaled

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Contain Harmful / Irritant material

SECTION 3: Composition/information on ingredients (Continued)

Chemical name	CAS NO.	EC. NO.	Classification
Potassium nitrate	7757-79-1	231-818-8	Oxidizing solids
Calcium chloride	10043-52-4	233-140-8	Eye irritant
Manganese sulphate	10034-96-5	232-089-9	Aquatic chronic

Section 4: First Aid Measures

4.1 Description of first aid measures

General advice

Consult physician with this safety data sheet

If inhaled

Move the person to fresh air; if person is unable to breath give artificial respiration and consult physician

Eye contact

Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist

In case of skin contact

Wash with soap and plenty of water in order to remove all contents from skin

If swallowed

Rinse mouth with water and consult physician.

4.2 Acute and delayed important symptoms and effects

Most important symptoms and effects, both acute and delayed

Inhalation: May cause irritation to respiratory system

Eye contact: May cause irritation to eyes

Section 4: First Aid Measures (Continued)

Skin contact: May cause irritation to skin

Ingestion: Ingestion may cause nausea and vomiting

4.3 Indication of any specific or immediate medical treatment needed

Remove the affected person from the source of contamination immediately. Transfer to hospital ifthere are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist.If medical advice is needed, have product container or label at hand.

Section 5: Fire and Explosion Data

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide/Use extinguishing media appropriate to the surrounding fire conditions.

5.2 Special hazards arising from the substance or mixture

Combustible dusts: May form combustible dust concentrations in air. Avoid formation of dust. Do not allow undiluted product to be released to ground water, water course or sewage system.

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting if necessary. Do not breathe dust or vapor. Wear suitable respiratory equipment when necessary.

5.4 Further information

No data available.

Section 6: Accidental Release Measures

6.1 Personal protective equipment and emergency procedures: Use personal protective equipment as per the local authority or the firm. Avoid dust formation and breathing dust. Avoid breathing vapours, mist or gas. Ensure adequate ventilation in area of work. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

Section 6: Accidental Release Measures (Continued)

6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust.

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection. For precautions see section 2.2. & 6.1

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic, Moisture sensitive.

7.3 Specific end use(s) Apart from the uses mentioned in section 1.2

No other specific uses are stipulated

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters and regulations.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

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Section 8: Exposure Controls/Personal Protection (Continued)

Eye/face protection
Triple layered Surgical Face mask and Safety glasses with side-shields.

Skin protection
Use of proper gowning/ aprons, Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product in accordance with good laboratory practices.

Body Protection
Choose body protection in relation to its type, to the concentration and number of dangerous substances, and to the specific work-place

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts is desired, use triple layered surgical type or type P1

Control of environmental exposure
Do not let product enter drains.

Other information
Stomach pains, vomiting, diarrhoea. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	**: Form: powder Colour: Off white coloured**
pH	**: 4.00 – 6.00 at 25°C**
Melting point/freezing point	**: No data available**
Initial boiling point and boiling range	**: No data available**
	: No data available
Flash point	**: No data available**
Evaporation rate	**: No data available**
Flammability (solid, gas)	**: No data available**
Upper/lower flammability or explosive limits	**: No data available**

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Section 9: Physical and Chemical Properties (Continued)

Vapour pressure	**: No data available**
Vapour density	**: No data available**
Relative density	**: No data available**
Water solubility	**: No data available**
Partition coefficient: n-octanol/water	**: No data available**
Decomposition temperature	**: No data available**
Viscosity	**: No data available**
Explosive properties	**: No data available**
Oxidizing properties	**: No data available**
9.2 Other safety information	**: No data available**

Section 10: Stability and Reactivity Data

10.1 Reactivity : No data available

10.2 Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions : No data available

10.4 Conditions to avoid: No data available

10.5 Incompatible materials : Strong oxidizing agents

10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions.

Nature of decomposition products not known. Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas, Sodium oxides Other decomposition products - No data available In the event of fire: see section 5

Section 11: Toxicological Information

11.1 Information on toxicological effects
Acute toxicity

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Section 11: Toxicological Information (Continued)

Based on available data, the classification criteria are not met. However, this product does contsubstance(s) that are classified as hazardous. For more information, see Section 3 And 4

Skin corrosion/irritation
May cause irritation to skin

Serious eye damage/eye irritation
May cause irritation to eyes

Respiratory or skin sensitization
May causes allergic reactions in susceptible people.

Germ cell mutagenicity
No data available

Carcinogenicity
IARC:
No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
No teratogenic effects reported

Specific target organ toxicity - single exposure
May cause allergy or asthma symptoms or breathing difficulties if inhaled

Specific target organ toxicity - repeated exposure
No Significant Hazard

Aspiration hazard
No Significant Hazard

Additional Information RTECS
Avoid prolonged or repeated exposure. Delayedappearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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Section 12: Ecological Information

12.1 Toxicity: Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3 and 4

12.2 Persistence and degradability: No data available

12.3 Bio-accumulative potential: No data available

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects: No data available

Section 13: Disposal Considerations

13.1 Waste treatment methods

Product Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

Type of Material: Not dangerous goods

Special precautions for user: No data available

Environmental hazards: No

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Section 15: Other Regulatory Information

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

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors: Neither Banned nor Restricted

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Neither Banned nor Restricted

Listed substance / Sunset Date: After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

15.2 Chemical safety assessment: For this product a chemical safety assessment was not carried out

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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