



SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Technical Grade Tissue Culture Agar
SKU NUMBER: TA100, TA500, TA1000, TA5000
COMPANY INFO: Plant Cell Technology, Inc.
1601 Connecticut Ave NW, Suite 400, Washington, DC, 20009
Phone: (202) 621-5490
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EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only
(INFOTRAC): 1-353-323-3500 - International

RECOMMENDED USE: *For research use only.*
Products sold by Plant Cell Technology are intended for research and laboratory use only.

RESTRICTIONS ON USE: Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticide products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: This substance does not meet the criteria for classification.

Hazards not otherwise classified (HNOC) or not covered by GHS: None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Gelose
CAS No.: 9002-18-0
Formula: $C_{14}H_{24}O_9$
Molecular Weight: 334.337
EC No.: 257-356-7

Ingredient	CAS Number	%	Hazardous
Technical TC Grade Agar	9002-18-0	100%	No exposure limits established by OSHA or ACGIH.

4. FIRST AID MEASURES

POTENTIAL HEALTH EFFECTS

Eye: Dust accumulation may cause irritation. Rinse immediately with plenty of water on & under the eyelids, for at least 15 minutes. **Get medical attention if irritation persists.**

Skin: May cause skin irritation. Low hazard for usual industrial handling. Wash off with plenty of water for at least 15 minutes. **Get medical attention if irritation persists.**

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Expected to be a low ingestion hazard. **Get medical attention if irritation persists.**

Inhalation: May cause respiratory tract irritation. Low hazard for industrial handling. **Get medical attention if irritation persists.**

EMERGENCY OVERVIEW

Appearance: Light beige.
Target Organs: None known.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighter:	In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	No data available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Use personal protective equipment recommended in Section 8. Avoid dust formation. Avoid breathing vapours, mist, or gas. Ensure adequate ventilation especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains, and prevent exposure to the environment.
Method of Containment and Cleanup:	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area.

7. HANDLING AND STORAGE

Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Wash thoroughly after use.
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.
Incompatibilities:	Strong oxidizing agents.
Recommended Storage Temperature:	20-22 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Controls:	Handle in accordance to general industrial hygiene and safety practice. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Personal Protective Equipment (PPE):	
Eye/Face Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133, or European Standard EN166. Have eye-washing facilities readily available where eye contact can occur.
Skin Protection:	Wear appropriate gloves to prevent skin exposure.
Body Protection:	Lab coat, and appropriate protective clothing to minimize contact with skin.
Respiratory Protection:	Follow the OSHA respirator regulations found in 29 CFR 1910.14 or European Standard EN149. Always use a NIOSH or European Standard EN149 approved respirator when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid powder.
Appearance:	Beige powder.
Odor:	Odorless.
Odor Threshold:	No data available.
pH:	6-7.5 suspension.
Melting Point/Range:	88-97°C.
Boiling Point/Range:	No data available.
Flash Point:	No data available.
Evaporation Rate:	N/A
Flammability (solid, gas):	No data available.
Flammability or Explosive Limits:	
Upper:	No data available.
Lower:	No data available.
Vapor Pressure:	Negligible.
Vapor Density:	N/A.
Specific Gravity:	No data available.
Solubility:	10-20g/L at 60° C
Partition Coefficient; n-octanol/water:	No data available.
Autoignition Temperature:	Not applicable.
Decomposition Temperature:	No data available.
Viscosity:	Not applicable.

10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Stable under normal conditions of use.
Conditions to Avoid:	Dust generation, excess heat, strong oxidants.
Incompatible Materials:	Strong oxidizers.
Hazardous Decomposition Products:	Carbon monoxide, irritating & toxic fumes and gases, carbon.
Hazardous Polymerization:	No data available.

11. TOXICOLOGICAL INFORMATION

RTES#:	Not listed.
LD50:	

<i>Oral, Rabbit</i>	<i>Oral, Rat</i>	<i>Oral, Mouse</i>
5800 mg/kg	11 g/kg	16g/kg

Carcinogenicity:	AGAR- Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology:	No data available.
Teratogenicity:	No data available.
Reproductive Effect:	No data available.
Neurotoxicity:	No data available.
Mutagenicity:	No data available.
Other Studies:	See actual entry in RTECS for complete information.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Do not empty into drains.
Environmental Fate:	No data available.
Physical/Chemical:	No data available.
Persistence and Degradability:	Soluble in water, Persistence is unlikely based on information available.
Bioaccumulation/Accumulation:	No information available.
Mobility:	Will likely be mobile in the environment due to its water solubility.
Other:	No data available.

13. DISPOSAL CONSIDERATION

Waste Disposal Methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must consult local, regional, and national hazardous waste regulations to ensure accurate classification.

RCRA P-Series:

Not listed.

RCRA U-Series:

Not listed.

14. TRANSPORT INFORMATION

US DOT:

Not restricted (as per ICAO-IATA).

Canadian TDG:

Not restricted.

IATA:

Not restricted.

15. REGULATORY INFORMATION

US FEDERAL TSCA:

Not listed.

SARA TITLE III:

Not listed.

Clean Air Act:

This material does not contain any hazardous air pollutants, Class 1 Ozone depleters, or Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants, or Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE:

Massachusetts Right to Know Components:

Not listed.

Pennsylvania Right to Know Components:

Not listed.

New Jersey Right to Know Components:

Not listed.

California Prop. 65 Components:

Not listed.

Europe/International Regulations:

Not listed.

WGK (Water Danger/Protection):

CAS# 9002-18-0 Agar.

Canada:

CAS# 9002-18-0 is listed on Canada's DSL/NDSL List, nor Canada's Ingredient Disclosure List.

WHMIS:

Not available.

16. OTHER INFORMATION

MSDS Revision Date: 3/14/2024

Plant Cell Technology provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. Plant Cell Technology shall not be held liable for any damage resulting from handling or from contact with the above product.

This product is intended for LABORATORY USE ONLY. Our Products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.