MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
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MSDS No. AA 75
Effective Date February 12, 1998

SECTION I NAME

Product	AGAR
Chemical Synonyms	Gelose; Agar-Agar.
Formula	$(C_{12}H_{18}O_9)_x$
Unit Size	up to 5 Kg.
C.A.S. No.	9002-18-0

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA HAZARD RATING

Health	0
Fire	1
Reactivity	0

HMIS *

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Agar	100%	None established.
NON-HAZARDOUS MATERIAL.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes.	Specific Gravity (H_2O = 1)	>1.0
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	Non-volatile solid (NA).
Vapor Density (Air=1)	Unknown.		
Solubility in Water	Insoluble in cold water, but soluble in boiling water; forms gells.		
Appearance & Odor	White to light tan, powder, flakes or granular. Characteristic bland odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

			Lower	Upper
Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume (NA)	- - - - - - - -	- - - - - - - -
Extinguisher Media	Water spray; dry chemical (ABC); carbon dioxide (CO_2).			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Combustible dust. This material, like most organic materials when in powder form, is capable of creating a dust explosion. Slight fire hazard, when exposed to heat or flame; can react vigorously with oxidizing materials.

D.O.T. **NON-REGULATED.**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA AA 75

Threshold Limited Value

None established (ACGIH 1983-84).

Effects of Overexposure

Agar is a dried hydrophilic colloidal substance obtained from various species of algae and, as such, presents a low hazard for normal laboratory use. May cause irritation on prolonged contact. Dust may cause eye irritation. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

SKIN: Flush thoroughly with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **INHALATION:** Remove to fresh air. If illness develops, get medical attention.

SECTION VI REACTIVITY DATA

Stability			**Conditions to Avoid**
	Unstable		Excessive temperature and heat.
	Stable	X	

Incompatibility (Materials to Avoid) Strong oxidizers and alkalies.

Hazardous Decomposition Products As with any other organic material, combustion will produce carbon dioxide and probably carbon monoxide, acrid smoke and fumes.

Hazardous Polymerization		**Conditions to Avoid**
May Occur	**Will Not Occur**	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for disposal. Wet spills: Slippery. Dike spills to minimize contamination. Absorb with inert material. Sweep or scoop up. Flush with water.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Uncontaminated material may be disposed of in a sanitary landfill or dispose of in an approved incinerator.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If necessary, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation				
	Local Exhaust	If dusty.	**Special**	No.
	Mechanical (General)	If dusty.	**Other**	No.

Protective Gloves	Not needed.	**Eye Protection**	Chemical safety glasses.

Other Protective Equipment Goggles, eye wash station, proper gloves, lab coat, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Keep container closed to avoid moisture pick up. Store in a cool, dry place away from oxidizers and alkalies. Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid breathing dust.
Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4	Date 2/12/98	Approved Michael Raszeja	Chemical Safety Coordinator MR