Material Safety Data Sheet

acc. to OSHA and ANSI

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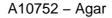
Reviewed on 03/19/2003

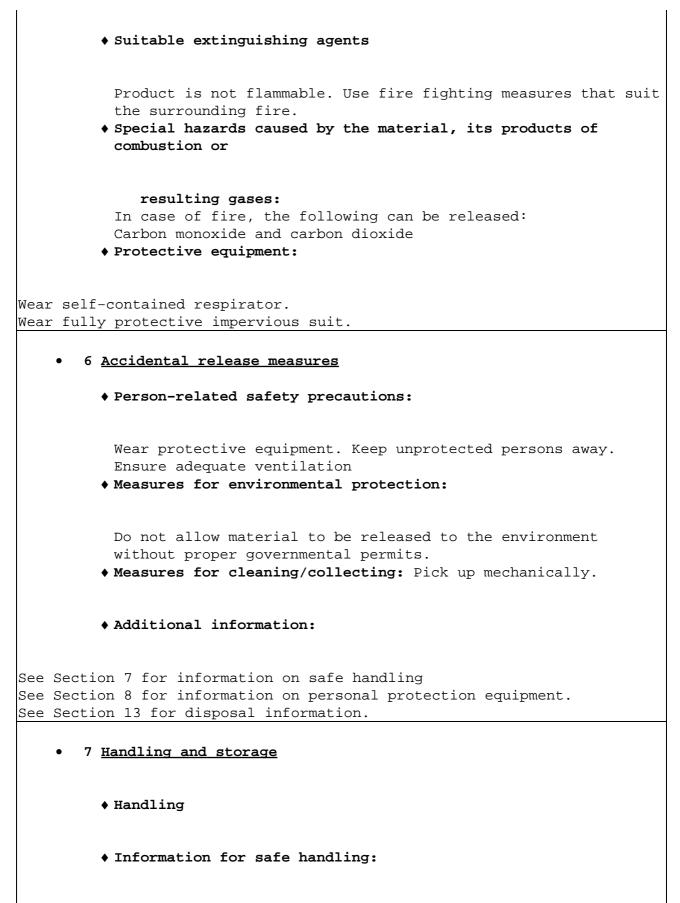
• 1 Identification of substance:		
♦ Product details:		
♦ Product name: <u>Agar</u>		
◆ Stock number: A10752		
♦ Manufacturer/Supplier:		
Alfa Aesar, A Johnson Matthey Company Johnson Matthey Catalog Company, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Emergency Phone: (978) 521-6300 CHEMTREC: (800) 424-9300 Web Site: www.alfa.com		
• Information Department: Health, Safety and Environmental Department		
<pre>◆ Emergency information:</pre>		
During normal hours the Health, Safety and Environmental Department. After normal hours call Chemtrec at (800) 424-9300.		
• 2 <u>Composition/Data on components:</u>		
◆ Chemical characterization:		
Description: (CAS#)		

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Agar (CAS# 9002-18-0), 100%

  Identification number(s):

         ◆ EINECS Number: 232-658-1
      3 Hazards identification
         ♦ Hazard description: • Not applicable
         • Information pertaining to particular dangers for man and
           environment
          Not applicable
         Classification system
         ♦ HMIS ratings (scale 0-4)
  (Hazardous Materials Identification System)
Health (acute effects) = 0
Flammability = 1
Reactivity = 0
      4 <u>First aid measures</u>
    •
         ♦ After inhalation
           Supply fresh air. If required, provide artificial respiration.
           Keep patient warm.
           Seek immediate medical advice.
         ♦ After skin contact
           Immediately wash with water and soap and rinse thoroughly.
           Seek immediate medical advice.
         ♦ After eye contact
           Rinse opened eye for several minutes under running water. Then
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Keep container tightly sealed.
           Store in cool, dry place in tightly closed containers.
          No special precautions are necessary if used correctly.
         Information about protection against explosions and fires:
          The product is not flammable
         ♦ Storage
         ♦ Requirements to be met by storerooms and receptacles:
          No special requirements.
         Information about storage in one common storage facility:
           Store away from oxidizing agents.
           Store away from water/moisture.
         ◆ Further information about storage conditions:
Protect from humidity and water.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
      8 Exposure controls and personal protection
         Additional information about design of technical systems:
           Properly operating chemical fume hood designed for hazardous
           chemicals and having an average face velocity of at least 100
           feet per minute.
          Components with limit values that require monitoring at the
          workplace:
          Not required.
         ♦ Additional information: No data
         Personal protective equipment
         ♦ General protective and hygienic measures
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The usual precautionary measures in be followed. Keep away from foodstuffs, beverage Remove all soiled and contaminated Wash hands before breaks and at th Breathing equipment:	ges and feed. d clothing immediately.
Use suitable respirator when high	
◆ Eye protection: Safety glasses	
• Body protection: Protective work of	clothing.
• 9 Physical and chemical properties:	
◆ General Information	
<pre> Form: Powder</pre>	
White	
Light yellow	
♦ Odor: Odorless	
◆ Method	<u>Value/Range Unit</u>
♦ Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Sublimation temperature / start:	Not determined

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Not applicable
         ♦ Flash point:
         ♦ Flammability (solid, gaseous) Product is not flammable.
         ♦ Ignition temperature: Not determined
         ◆ Decomposition temperature: Not determined
         ◆ Danger of explosion:
          Product does not present an explosion hazard.
         ♦ Explosion limits:
                                           Not determined
         ♦ Lower:
         • Upper:
                                           Not determined
                                       Not determined
         ♦ Vapor pressure:
                                        Not determined
         ◆ Density:
         Solubility in / Miscibility with
                                           Partly soluble
         ♦ Water:
Not determined
    • 10 Stability and reactivity
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     Thermal decomposition / conditions to be avoided:
      Decomposition will not occur if used and stored according to
      specifications.
     Materials to be avoided:
      Oxidizing agents
      Water/moisture
     ♦ Dangerous reactions No dangerous reactions known
     • Dangerous products of decomposition: Carbon monoxide and
      carbon dioxide
• 11 Toxicological information
     ♦ Acute toxicity:
      LD/LC50 values that are relevant for classification:
      Oral: LD50: 6100 mg/kg (ham)
      LD50: 16000 mg/kg (mus)
      LD50: 11000 mg/kg (rat)
      LD50: 5800 mg/kg (rbt)

    Primary irritant effect:
     • on the skin: May cause irritation
     ♦ on the eye: May cause irritation
     ◆ Sensitization: No sensitizing effects known.
     Subacute to chronic toxicity:
      Other than potential irritation (see above), no information on
      illness or injury to humans from acute or chronic exposure to
      this product is available.
     Additional toxicological information:
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To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

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No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

- 12 Ecological information:
 - ♦ General notes:

Do not allow material to be released to the environment without proper governmental permits.

- 13 <u>Disposal considerations</u>
 - Product:
 - \bullet Recommendation

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:

♦ Recommendation:

Disposal must be made according to official regulations.

• 14 Transport information

Not a hazardous material for transportation.

- ♦ DOT regulations:
- ♦ Hazard class: None
- ♦ Land transport ADR/RID (cross-border)
- ♦ ADR/RID class: None
- Maritime transport IMDG:

	• IMDG Class:	None	
	♦ Air transport ICAO-TI and	I IATA-DGR:	
	ICAO/IATA Class:	None	
	♦ Transport/Additional info	ormation:	
Not dang	erous according to the above	e specifications.	
• 1	5 <u>Regulations</u>		
	Product related hazard in	formations:	
	Observe the general safet	y regulations when handling chemical	
	♦ National regulations		
	All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.		
	◆ Information about limitat	cion of use:	
For use	only by technically qualifie	ed individuals.	
• 1	6 Other information:		

Contact: