

Safety Data Sheet



1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Agar

Synonyms/Generic Names: Agar-Agar; Gum agar

SDS Number: 15.00

Product Use: For Educational Use Only

Manufacturer: Columbus Chemical Industries, Inc. N4335 Temkin Rd. Columbus, WI. 53925

For More Information Contact:Ward's Science 5100 West Henrietta Rd. PO Box 92912-9012 Rochester, NY 14692 (800) 962-2660 (Monday-Friday 7:30-7:00 Eastern Time)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: No known OSHA hazards

Target Organs: None

Signal Words: None

Pictograms: None

GHS Classification:

Not a dangerous substance according to GHS

GHS Label Elements, including precautionary statements:

Hazard Statements:

Precautionary Statements:

None

Potential Health Effects

| Eyes | May cause eye irritation. | |
|------------|---|--|
| Inhalation | May be harmful if inhaled. May cause respiratory tract irritation. | |
| Skin | May be harmful if absorbed through skin. May cause skin irritation. | |
| Ingestion | May be harmful if swallowed. | |

| NFPA Ratings | |
|-----------------|---------------|
| Health | 0 |
| Flammability | 0 |
| Reactivity | 0 |
| Specific hazard | Not Available |

| HMIS Ratings | |
|--------------|---|
| Health | 0 |
| Fire | 0 |
| Reactivity | 0 |
| Personal | В |
| | |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | Weight % | CAS # | EINECS# / ELINCS# | Formula | Molecular Weight |
|-----------|----------|-----------|----------------------|----------------------|---------------------|
| Agar | 100 | 9002-18-0 | 232-658-1 | $(C_{12}H_{18}O_9)n$ | 306.27 g/mol |

4. FIRST-AID MEASURES

| Eyes | Rinse with plenty of water for at least 15 minutes. |
|------------|---|
| Inhalation | Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not |
| | breathing, give artificial respiration. |
| Skin | Flush with plenty of water for at least 15 minutes while removing contaminated clothing and |
| | wash using soap. |
| Ingestion | Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If |
| | conscious, wash out mouth with water. |

5. FIREFIGHTING MEASURES

| Suitable (and unsuitable) extinguishing media | Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water. |
|--|--|
| Special protective equipment Wear self-contained, approved breathing apparatus and full protective equipment with the self-contained approved breathing apparatus and full protective equipment. | |
| and precautions for firefighters clothing including eye protection and boots. | |
| Specific hazards arising from | Emits toxic fumes (carbon oxides) under fire conditions.)See also |
| the chemical | Stability and Reactivity Section.) |

6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protective equipment and emergency procedures | See section 8 for recommendations on the use of personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. |
|---|---|
| Environmental precautions | Prevent spillage from entering drains. Any release to the environment may be subject to a federal/national or local reporting requirements. |
| Methods and materials for containment and cleaning up | Cleanup personnel need personal protection from inhalation and skin/eye contact. Evacuate and ventilate the area. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste or cleanup materials in accordance with local regulations. |

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Provide appropriate exhaust ventilation at places where dust is formed. Wash thoroughly after using. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Isolate from oxidizing materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

Personal Protection

| Eyes | Wear chemical safety glasses. |
|------------|---|
| Inhalation | Use an approved respirator if exposure levels are excessive. Provide adequate exhaust. |
| Skin | Wear neoprene or nitrile gloves, protective clothing appropriate to the risk of exposure. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Other | Not Available |

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance (physical state, color, etc.) | Pale, beige powder |
|---|-----------------------------|
| Odor | No Odor |
| Odor threshold | Not Applicable |
| рН | Not Available |
| Melting point/freezing point | Not Available |
| Initial boiling point and boiling range | Not Available |
| Flash point | Not Flammable |
| Evaporation rate | Not Available |
| Flammability (solid, gas) | Not Flammable |
| Upper/lower flammability or explosive limit | Not Explosive |
| Vapor pressure | Not Available |
| Vapor density | Not Available |
| Relative density | Not Available |
| Solubility (ies) | Completely soluble in water |
| Partition coefficient: n-octanol/water | Not Available |
| Auto-ignition temperature | Not Available |
| Decomposition temperature | Not Available |

10. STABILITY AND REACTIVITY

| Chemical Stability | Stable |
|------------------------------------|------------------|
| Possibility of Hazardous Reactions | Will not occur. |
| Conditions to Avoid | None |
| Incompatible Materials | Strong oxidizers |
| Hazardous Decomposition Products | Carbon oxides |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| Addie Toxiony | |
|---------------|--------------------------------|
| Skin | Not Available |
| Eyes | Not Available |
| Respiratory | Not Available |
| Ingestion | LD50 Oral – rat – 11,000 mg/kg |

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. | |
|-------|--|--|
| | | |
| ACGIH | No components of this product present at levels greater than or equal to 0.1% is identifie | |
| | as a carcinogen or potential carcinogen by ACGIH. | |
| NTP | ITP No components of this product present at levels greater than or equal to 0.1% is identif | |
| | as a known or anticipated carcinogen by NTP. | |
| OSHA | HA No components of this product present at levels greater than or equal to 0.1% is identified | |
| | as a carcinogen or potential carcinogen by OSHA. | |

Signs & Symptoms of Exposure

| Eyes | May cause eye irritation. | |
|------------|--|--|
| Inhalation | Skin May be harmful if absorbed through skin. May cause skin irritation. | |
| Skin | | |
| Ingestion | | |

| Chronic Toxicity | Not Available |
|---------------------------------------|---------------|
| Teratogenicity | Not Available |
| Mutagenicity | Not Available |
| Embryotoxicity | Not Available |
| Specific Target Organ Toxicity | Not Available |
| Reproductive Toxicity | Not Available |
| Respiratory/Skin Sensitization | Not Available |

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Aquatic Vertebrate | Not Available |
|----------------------|---------------|
| Aquatic Invertebrate | Not Available |
| Terrestrial | Not Available |

| Persistence and Degradability | Not Available |
|-------------------------------|---------------|
| Bioaccumulative Potential | Not Available |
| Mobility in Soil | Not Available |
| PBT and vPvB Assessment | Not Available |
| Other Adverse Effects | Not Available |

13. DISPOSAL CONSIDERATIONS

| Waste Residues | Users should review their operations in terms of the applicable federal/national or |
|--------------------|---|
| | local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste products or residues. |
| Product Containers | Users should review their operations in terms of the applicable federal/national or |

| | local regulations and consult with appropriate regulatory agencies if necessary |
|--|---|
| | before disposing of waste product container. |

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

| US DOT | Not Dangerous Goods |
|------------------|---------------------|
| TDG | Not Dangerous Goods |
| IMDG | Not Dangerous Goods |
| Marine Pollutant | No |
| IATA/ICAO | Not Dangerous Goods |

15. REGULATORY INFORMATION

| TSCA Inventory Status | All ingredients are listed on the TSCA inventory. |
|---------------------------|---|
| DSCL (EEC) | All ingredients are listed on the DSCL inventory. |
| California Proposition 65 | Not Listed |
| SARA 302 | Not Listed |
| SARA 304 | Not Listed |
| SARA 311 | No SARA Hazards |
| SARA 312 | No SARA Hazards |
| SARA 313 | Not Listed |
| WHMIS Canada | Not Listed |

16. OTHER INFORMATION

| Revision | Date |
|------------|------------|
| Revision 1 | 01/28/2013 |
| Revision 2 | 06/19/2013 |
| | |

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