

**EMS CATALOG NO: 10205-
10207**
EMS PRODUCT: Agarose
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MATERIAL SAFETY DATA SHEET

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FOR PRODUCT AND SALES INFORMATION

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PRODUCT IDENTIFICATION

COMMON NAME: AGAROSE
COMMERCIAL NAME(S): Not available.
SYNONYM: Not available.
CHEMICAL NAME: Not available.
CHEMICAL FAMILY: Not available.
CHEMICAL FORMULA: $C_6H_{10}O_5 \cdot C_6H_8O_4)_n$
CAS#: 9012-36-6
RTECS: QO6785000
TSCA: On the TSCA list.
CI#: Not available.

COMPOSITION AND INFORMATION ON INGREDIENTS

NAME: AGAROSE
CAS#: 9012-36-6
% BY WEIGHT: 100

TOXICOLOGICAL DATA ON INGREDIENTS: Not applicable.

HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS:

Slightly dangerous to dangerous in case of ingestion. Very slightly to slightly dangerous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

POTENTIAL CHRONIC HEALTH EFFECTS:

Slightly dangerous to dangerous in case of ingestion. Very slightly to slightly dangerous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

Toxicity of the product to the reproductive system: Not available.

FIRST AID MEASURES

EYE CONTACT:

NO known EFFECT on eye contact, rinse with water for a few minutes.

SKIN CONTACT:

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an

emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

SERIOUS SKIN CONTACT: No additional information.

INHALATION:

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

SERIOUS INHALATION: No additional information.

INGESTION:

Remove dentures if any. Have conscious person drink several glasses of water or milk. **INDUCE VOMITING** by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. **NEVER** give an unconscious person anything to ingest. Seek medical attention.

SERIOUS INGESTION: No additional information.

FIRE AND EXPLOSION DATA

FLAMMABILITY OF THE PRODUCT: Combustible.

AUTO-IGNITION TEMPERATURE: Not available.

FLASH POINTS: Not available.

FLAMMABLE LIMITS: Not available.

PRODUCTS OF COMBUSTION: These products are carbon oxides (CO, CO₂).

FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES: No specific information is available in our database regarding the flammability of this product in presence of various materials.

EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:

RISKS OF EXPLOSION OF THE PRODUCT IN PRESENCE OF MECHANICAL

IMPACT: Not available.

RISKS OF EXPLOSION OF THE PRODUCT IN PRESENCE OF STATIC

DISCHARGE: Not available.

No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.

FIRE FIGHTING MEDIA AND INSTRUCTIONS:

SMALL FIRE: Use DRY chemicals, CO₂, water spray or foam.

LARGE FIRE: Use water spray, fog or foam. **DO NOT** use water jet.

SPECIAL REMARKS ON FIRE HAZARDS: No additional information.

SPECIAL REMARKS ON EXPLOSION HAZARDS: No additional remark.

ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

LARGE SPILL:

Our database contains no additional information in case of a spill and/or a leak of the product. Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on contaminated surface and allow to evacuate through the sanitary system.

HANDLING AND STORAGE

PRECAUTIONS:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DO NOT breathe dust.

STORAGE:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

PERSONAL PROTECTION:

Safety glasses. Lab coat.
PERSONAL PROTECTION IN CASE OF A LARGE SPILL:
Splash goggles. Full suit. Boots. Gloves. Suggested
protective clothing might not be sufficient; consult a
specialist BEFORE handling this product.
EXPOSURE LIMITS: Not available.

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE AND APPEARANCE: Solid
ODOR: Not available.
TASTE: Not available.
COLOR: Not available.
MOLECULAR WEIGHT: Not available.
pH (1% SOLN/WATER): Not available.
BOILING POINT: Not available.
MELTING POINT: Decomposes.
CRITICAL TEMPERATURE: Not available.
SPECIFIC GRAVITY: Not available.
VAPOR PRESSURE: Not available.
VAPOR DENSITY: Not available.
VOLATILITY: Not available.
ODOR THRESHOLD: Not available.
WATER/OIL DIST. COEFF.: Not available.
IONICITY (IN WATER): Not available.
DISPERSION PROPERTIES: Not available.
SOLUBILITY: Not available.

STABILITY AND REACTIVITY DATA

STABILITY: The product is stable.
INSTABILITY TEMPERATURE: Not available.
CONDITIONS OF INSTABILITY: No additional remark.
INCOMPATIBILITY WITH VARIOUS SUBSTANCES: No specific information
is available in our database regarding the reactivity of
this material in presence of various other materials.
CORROSIVITY: Non-corrosive in presence of glass.
SPECIAL REMARKS ON REACTIVITY: No additional remark.
SPECIAL REMARKS ON CORROSIVITY: No additional remark.
POLYMERIZATION: No.

TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: Ingestion.

TOXICITY TO ANIMALS:

LD50: Not available.

LC50: Not available.

CHRONIC EFFECTS ON HUMANS: Toxicity of the product to the reproductive system: Not available.

OTHER TOXIC EFFECTS ON HUMANS: Slightly dangerous to dangerous in case of ingestion. Very slightly to slightly dangerous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

SPECIAL REMARKS ON TOXICITY TO ANIMALS: No additional remark.

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS: No additional remark.

SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS: No additional remark.

ECOLOGICAL INFORMATION

ECOTOXICITY: Not available.

BOD5 AND COD: Not available.

PRODUCTS OF BIODEGRADATION: These products are carbon oxides (CO, CO₂)

TOXICITY OF THE PRODUCTS OF BIODEGRADATION: These products of degradation are more toxic.

SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION: No additional remark.

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Recycle to process, if possible. Consult your local or regional authorities.

TRANSPORT INFORMATION

DOT CLASSIFICATION: Not a DOT controlled material (United States).

IDENTIFICATION: Not applicable (PIN and PG).

SPECIAL PROVISIONS FOR TRANSPORT: Not applicable.

OTHER REGULATORY INFORMATION

FEDERAL AND STATE REGULATIONS: The following product(s) is (are)
listed on TSCA: **Agarose**

OTHER REGULATIONS: Our database contains no special consideration
on the product.

OTHER CLASSIFICATIONS:

WHMIS (CANADA): Not controlled under WHMIS (Canada).

DSCLA (EEC): Not controlled under DSCL (Europe).

HMIS (U.S.A.):

HEALTH HAZARD: 1

FIRE HAZARD: 1

REACTIVITY: 0

PERSONAL PROTECTION: a

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)

HEALTH:

FLAMMABILITY: 1

REACTIVITY: 0

SPECIFIC HAZARD:

PROTECTIVE EQUIPMENT:

Lab coat.

Safety glasses.