



SAFETY DATA SHEET

Preparation Date: 8/19/2014 Revision Date: 8/19/2014 Revision Number: G1

IDENTIFICATION

Product identifier

Product code: A3572

Product Name: AGAROSE, -0.13 EEO, ULTRAPURE

Other means of identification

Synonyms: No information available

CAS #: 9012-36-6 RTECS# Not available CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available. Uses advised against No information available

Spectrum Chemicals and Laboratory Products, Inc. Supplier:

> 14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300 Contact Person: Martin LaBenz (West Coast) **Contact Person:** Regina Wachenheim (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

| Not classified | | | |
|----------------|--|--|--|
| | | | |
| | | | |
| | | | |

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Product code: A3572 Product name: AGAROSE, -0.13 EEO,

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight % | Trade Secret |
|-------------------|-----------|----------|--------------|
| Agarose -0.13 EEO | 9012-36-6 | 100 | * |
| 9012-36-6 | | | |

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms

May cause eye/skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide

Specific hazards: May be combustible at high temperatures

Fine dust dispersed in air in sufficient concentrations, and in

the presence of an ignition source is a potential dust

explosion hazard

Special Protective Actions for Firefighters

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Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes

and clothing. Avoid dust formation. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

U.S Occupational Exposure Limits:

United States

| Components | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|-------------------------------|----------------------------------|----------------|-----------------------------|----------------|
| | For Particulates Not | Not determined | For Particulates not | Not determined |
| Agarose -0.13 EEO - 9012-36-6 | Otherwise Classified: 15 | | otherwise Classified: 10 | |
| | mg/m ³ TWA total; 5 | | mg/m ³ TWA total | |
| | mg/m ³ TWA respirable | | | |

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Canada

Canada Occupational Exposure Limits: Not determined

| Components | Alberta | British Columbia | Ontario | Quebec |
|-------------------------------|---------|------------------|---------|--------|
| | None | None | None | None |
| Agarose -0.13 EEO - 9012-36-6 | | | | |

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

| Components | Australia | Mexico |
|-------------------|-----------|--------|
| Agarose -0.13 EEO | None | None |
| 9012-36-6 | | |

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. 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.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Product code: A3572

Eye protection: Safety glasses. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Wear respirator with dust filter..

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Product name: AGAROSE, -0.13 EEO,

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid. Powder. White, Off-white.

Odor: Taste Formula:

None. No information available (C6-H10-O5.C6-H8-O4)n or [C12-H14-

O5(OH)4]n

Molecular/Formula weight:Flash point (°C):Flashpoint (°C/°F):No information availableNo data availableNo information available.

Flash Point Tested according to: Lower Explosion Limit (%): Upper Explosion Limit (%):

Not available No information available No information available

Autoignition Temperature (°C/°F): pH: Melting point/range(°C/°F):

109.4 °F

Boiling point/range(°C/°F): Decomposition temperature(°C/°F): Specific gravity:

No information available
No information available
No information available

Density (g/cm3): Vapor pressure @ 20°C (kPa):

No information available
No information available
No information available

Evaporation rate: Vapor density: VOC content (g/L):
No information available

No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility:Solubility:No information availableSoluble in Water

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stability: Stable at normal conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust

dispersed in air in sufficient concentrations, and in the presence of an ignition source

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is a potential dust explosion hazard.

Incompatible Materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Product code: A3572 Product name: AGAROSE, -0.13 EEO,

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Agarose -0.13 EEO - 9012-36-6

LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion Low hazard. Health injuries are not known or expected under normal use. Ingestion

of large amounts may cause gastrointestinal tract upset and possible constipaton

due to gelation and bulking.

Aspiration hazardNo information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Chronic Toxicity
Sensitization:
No information available
No information available
No information available

Carcinogenic effects: Not considered carcinogenic.

| Components | ACGIH - Carcinogens | IARC | NTP | OSHA HCS - Carcinogens | Australia - Prohibited Carcinogenic | Australia - Notifiable Carcinogenic |
|-------------------|------------------------|------------|------------|---------------------------|--|--|
| | | | | | Substances | Substances |
| Agarose -0.13 EEO | Not listed | Not listed | Not listed | Not listed | Not listed | Not listed |

Reproductive toxicity

No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure Target Organs: No information available No information available No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Product code: A3572

Empty containers should be taken for local recycling, recovery or waste disposal

| | Components | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|---|-------------------|---------------------------|---------------------------|------------------------------|------------------------|
| į | Agarose -0.13 EEO | None | None | | None |

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14. TRANSPORT INFORMATION

DOT

UN-No: Not regulated

Proper Shipping Name: No information available **Hazard Class:** No information available

Subsidiary Risk: Not applicable

Packing Group: None

Marine PollutantNo data availableERG No:No information availableDOT RQ (lbs):No information available

TDG (Canada)

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not regulated

No information available **Proper Shipping Name: Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available **Description:** No information available IMDG Page: No information available **Marine Pollutant** No information available MFAG: No information available **Maximum Quantity:** No information available

RID

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

ICAO

Product code: A3572

UN-No: Not regulated

Proper Shipping Name: No information available No information available Subsidiary Risk: No information available

14. TRANSPORT INFORMATION

Packing Group:No information availableDescription:No information available

IATA

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

15. REGULATORY INFORMATION

International Inventories

| Components | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | CHINA | Australia (AICS) | EINECS-No. |
|-------------------|------------|----------------------|---------------------|-------------|---------|---------------------|-------------------|
| Agarose -0.13 EEO | Present XU | Present KE- 00278 | Present | Not present | Present | Present | Present 232-731-8 |

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components | Carcinogen | Developmental Toxicity | Male Reproductive | Female Reproductive | |
|-------------------|------------|------------------------|-------------------|---------------------|--|
| | | | Toxicity | Toxicity: | |
| Agarose -0.13 EEO | Not Listed | Not Listed | Not Listed | Not Listed | |

CERCLA/SARA

| | CERCLA - Hazardous Substances and their | Section 302 Extremely Hazardous | Section 302 Extremely Hazardous | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|-------------------|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| | Reportable Quantities | Substances and TPQs | Substances and RQs | , | |
| Agarose -0.13 EEO | None | None | None | None | None |

U.S. TSCA

| • | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting | |
|-------------------|---|--|--|
| Agarose -0.13 EEO | Not Applicable | Not Applicable | |

Canada

WHMIS hazard class:

Non-controlled

Agarose -0.13 EEO

Uncontrolled product according to WHMIS classification criteria

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Agarose -0.13 EEO

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

| Components | Canada (DSL) | Canada (NDSL) |
|-------------------|--------------|---------------|
| Agarose -0.13 EEO | Present | Not Listed |

| Components | CEPA Schedule I - Toxic Substances | CEPA - 2010 Greenhouse Gases Subject to Manditory | |
|-------------------|------------------------------------|---|--|
| | | Reporting | |
| Agarose -0.13 EEO | Not listed | Not listed | |

EU Classification

R-phrase(s)

not determined

S -phrase(s)

none

| Components | Classification | Concentration Limits: | Safety Phrases |
|-------------------|----------------|-----------------------|----------------|
| Agarose -0.13 EEO | | No information | |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Not dangerous

16. OTHER INFORMATION

Product code: A3572

Product name: AGAROSE, -0.13 EEO,

| 16. OTHER INFORMATION | | |
|-----------------------|------|-------------------------------|
| NFPA | HMIS | Personal Protective Equipment |



| Health Hazard | 1 |
|---------------|---|
| Fire Hazard | 1 |
| Reactivity | 0 |



See Section 8.

Preparation Date:8/19/2014Revision Date:8/19/2014Prepared by:Sonia Owen

Disclaimer:

Product code: A3572

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Material Safety Data Sheet