

Revision Date: 2015.05.28

SeaKem® LE

Version 1.0 MSDS Number: 000000012738

SECTION 1. IDENTIFICATION

Product name

: SeaKem® LE

Material number

50001

Product code

000000012738

Manufacturer or supplier's details

Company

: Lonza Ltd

Muenchensteinerstrasse 38

CH-4002 Basel Switzerland

Business Telephone +41 61 316 81 11

Lonza Inc. - Rockland 191 Thomaston Street Rockland, ME 04841-2994

USA

Business Telephone: 1-207-594-3400

Lonza Inc. - Walkersville 8830 Biggs Ford Road Walkersville, MD 21793-0127

USA

Business Telephone 1-301-898-7025

E-mail address

: prodinfo@lonza.com

Emergency telephone number

+41 61 313 94 94 (24h)

Recommended use of the chemical and restrictions on use

Recommended use

Scientific research and development

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Combustible dust

•

GHS Label element

Signal word

: Warning

Hazard statements

May form combustible dust concentrations in air

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Hazardous components



SeaKem® LE

Version 1.0 MSDS Number: 000000012738 Revision Date: 2015.05.28

Chemical Name	CAS-No.	Concentration (%)
Agarose	9012-36-6	>= 90.00

SECTION 4. FIRST AID MEASURES

If inhaled

No special precautions required.

In case of skin contact

: After contact with skin, wash immediately with plenty of soap and

water.

If skin irritation persists, call a physician.

In case of eye contact

Immediately flush eye(s) with plenty of water.

If eye irritation persists, consult a specialist.

If swallowed

If swallowed, do not induce vomiting - seek medical advice.

Immediately give large quantities of water to drink.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

No information available.

Notes to physician

No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

Dry powder

Water spray

Foam

Specific hazards during firefighting

: Avoid generating dust; fine dust dispersed in air in sufficient con-

centrations, and in the presence of an ignition source is a potential

dust explosion hazard.

Heating or fire can release toxic gas.

Further information

: Use water spray to cool unopened containers.

Special protective equipment for

firefighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

Avoid dust formation.

Environmental precautions

General advice

Prevent product from entering drains.

Methods and materials for containment and cleaning up

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the

atmosphere in sufficient concentration.



SeaKem® LE

Version 1.0

MSDS Number: 000000012738

Revision Date: 2015.05.28

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with

compressed air).

Non-sparking tools should be used.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling

Minimize dust generation and accumulation.

Routine housekeeping should be instituted to ensure that dusts do

not accumulate on surfaces.

Dry powders can build static electricity charges when subjected to

the friction of transfer and mixing operations.

Provide adequate precautions, such as electrical grounding and

bonding, or inert atmospheres.

Conditions for safe storage

Keep container tightly closed.

To maintain product quality, do not store in heat or direct sunlight.

Keep in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Engineering measures

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e.,

there is no leakage from the equipment).

Use only appropriately classified electrical equipment and pow-

ered industrial trucks.

Personal protective equipment

Respiratory protection

Respirator must be worn if exposed to dust.

Hand protection

Remarks

: Handle in accordance with good industrial hygiene and safety

practice.

Eye protection

: Handle in accordance with good industrial hygiene and safety

practice.

Skin and body protection

: Wear suitable protective clothing and gloves.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety

practice.

Lonza

SeaKem® LE

Version 1.0 MSDS Number: 000000012738 Revision Date: 2015.05.28

Appearance : powder

Colour : white

Odour : odourless

Odour Threshold : no data available

pH : no data available

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : no data available

Evaporation rate : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : no data available

Relative vapour density : no data available

Relative density : no data available

Density : 1.49 g/cm³

Solubility(ies)

Water solubility : 10 g/l (80 °C)

Partition coefficient: n-

octanol/water

no data available

Auto-ignition temperature

: no data available

Decomposition temperature

no data available

Viscosity, dynamic

: no data available

Viscosity, kinematic

no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : None known.

Conditions to avoid : Avoid dust formation.



SeaKem® LE

Version 1.0 MSDS Number: 000000012738 Revision Date: 2015.05.28

Incompatible materials

: Strong acids and oxidizing agents

Hazardous decomposition prod-

ucts

Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by ACGIH.

Further information

Remarks: There is no data available for this product.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish : Remarks: no data available

Persistence and degradability

Biodegradability : Remarks: no data available

Bioaccumulative potential

Bioaccumulation : Remarks: no data available

Mobility in soil

Distribution among environmental : Rem

compartments

Remarks: no data available

Other adverse effects

Results of PBT and vPvB assess-

ment

This mixture contains no substance considered to be persistent,

bioaccumulating and toxic (PBT).

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-

Depleting Substances (40 CFR 82, Subpt. A, App A & B)
Remarks: This product neither contains, nor was manufactured
with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).



SeaKem® LE

Version 1.0

MSDS Number: 000000012738

Revision Date: 2015.05.28

Additional ecological information

: There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: In accordance with local and national regulations.

Contact waste disposal services.

SECTION 14. TRANSPORT INFORMATION

10	
100	. ~

UN number Proper shipping name

Transport hazard class

Packing group

Environmental hazards

Not dangerous goods

Not applicable

Not applicable

Not applicable

Not applicable

no

IMDG

Not dangerous goods

UN number

Proper shipping name Transport hazard class

Packing group

Environmental hazards

: Not applicable

: Not applicable

: Not applicable

: Not applicable

Marine pollutant: no

ADR

Not dangerous goods

UN number

Proper shipping name Transport hazard class

Packing group

Environmental hazards

: Not applicable

Not applicable

Not applicable

Not applicable

: no

RID

Not dangerous goods

UN number

Proper shipping name Transport hazard class

Packing group

Environmental hazards

Not applicable

Not applicable Not applicable

Not applicable

no

DOT

Not dangerous goods

UN number

Proper shipping name Transport hazard class

Packing group

Environmental hazards

: Not applicable

Not applicable

Not applicable

Not applicable

no



SeaKem® LE

Version 1.0

MSD\$ Number: 000000012738

Revision Date: 2015.05.28

TDG

Not dangerous goods

UN number

Proper shipping name Transport hazard class Packing group

Environmental hazards

Not applicable

Not applicable

: Not applicable: Not applicable

: no

Special precautions for user

: none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

: Not applicable

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 311/312 Hazards

: No SARA Hazards

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.



SeaKem® LE

Version 1.0

MSDS Number: 000000012738

Revision Date: 2015.05.28

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to

Know Act.

Pennsylvania Right To Know

Agarose 9012-36-6 90 - %

Water 7732-18-5 - 10 %

New Jersey Right To Know

Agarose 9012-36-6 90 - % Water 7732-18-5 - 10 %

California Prop 65

This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other reproduc-

tive harm.

The components of this product are reported in the following inventories:

DSL

: All components of this product are on the Canadian DSL.

NZIOC

May be used as a single component chemical under an appro-

priate group standard

TSCA

Listed on TSCA

EINECS

This mixture contains only ingredients which have been regis-

tered according to Regulation (EC) No. 1907/2006 (REACH).

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

SeaKem is a registered trademark of FMC Corp

Revision Date

: 2015.05.28

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and



SeaKem® LE

Version 1.0

MSDS Number: 000000012738

Revision Date: 2015.05.28

may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.