

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Trade name : ArtMolds® Impression Material - SILFREE™
 Product name : LifeMold™
 Product code : AM1L0103 R, AM1L0110 R, AM1L0120 R, AM1L0150 R,

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Mold making of living body parts

1.3. Details of the supplier of the safety data sheet

ENVIRONMOLDS, LLC
 18 Bank Street / Suite 1
 Summit, NJ 07901
 Tel: 1-866-278-6653

1.4. Emergency telephone number

Emergency number : 1-908-273-5401
 Mon- Sat. 8:00 AM – 7:00 PM (Eastern Time)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Skin Irrit. 2 H315
 Eye Dam. 1 H318
 Comb.Dust H232

Full text of H-phrases: see section 16

2.2. Label elements

Labelling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H315 - Causes skin irritation
 H318 - Causes serious eye damage
 H232 - May form combustible dust concentrations in air

Precautionary statements (GHS-US) :

P264 - Wash hands thoroughly after handling
 P280 - Wear protective gloves, eye protection
 P302+P352 - If on skin: Wash with plenty of a doctor
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P310 - Immediately call a poison center/doctor/...
 P321 - Specific treatment (see First aid measures on this label)
 P332+P313 - If skin irritation occurs: Get medical advice/attention
 P362 - Take off contaminated clothing and wash before reuse

2.3. Other hazards

This product can produce a nuisance dust, which should be maintained below a time weighted average of 10 mg/m3. Exposure to high concentrations may produce lung damage.

ARTMOLDS IMPRESSION MATERIAL-SILFREE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Cellulose pulp	(CAS No) 65996-61-4	< 75	Not classified
Alginic acid, sodium salt	(CAS No) 9005-38-3	< 25	Not classified
Tetrasodium pyrophosphate	(CAS No) 7722-88-5	< 25	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Calcium sulfate	(CAS No) 7778-18-9	< 25	Skin Irrit. 2, H315 Eye Dam. 1, H318

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. Wash skin thoroughly by using soap and water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after skin contact : May cause irritation. Repeated or prolonged skin contact may cause dermatitis and defatting.
- Symptoms/injuries after eye contact : Serious damage to eyes. Symptoms include stinging, watering, redness, soreness and swelling.
- Symptoms/injuries after inhalation : This product can produce a nuisance dust, which should be maintained below a time weighted average of 10 mg/m³.
- Symptoms/injuries after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray.
- Unsuitable extinguishing media : Avoid using dry chemical powder and carbon dioxide. This may form fine dust dispersed.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : The product is not flammable.
- Explosion hazard : Avoid generation of dust; fine dust dispersed in air in sufficient concentration, and in the presence of an ignition source is a potential dust explosion hazard.

5.3. Advice for firefighters

- Firefighting instructions : No special fire fighting procedures are required.
- Protective equipment for firefighters : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : 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.

6.1.1. For non-emergency personnel

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure-controls/personal protection.
- Emergency procedures : Avoid contact with skin and eyes. Do not breathe dust. Evacuate unnecessary personnel.

ARTMOLDS IMPRESSION MATERIAL-SILFREE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Recover mechanically the product. Wet clean or vacuum up solids. Sweep or shovel spills into appropriate container for disposal. Wash contaminated area with large amounts of water. Avoid raising powdered materials into airborne dust. Avoid dispersal of dust in the air (i.e.. cleaning dust surfaces with compressed air). Non-sparking tools should be used.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid prolonged or repeated breathing of vapor or dust. Use only in well ventilated areas. 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 mixture operations. Provide adequate precautions, such as electrical grounding and bonding or inert atmospheres.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Provide adequate ventilation to minimize dust concentrations.
- Storage conditions : Store in a well-ventilated place. Store in a dry and cool place. Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition. Avoid letting broken or open bags stay open. Wrap them in plastic bags immediately to prevent water vapor or moisture from reacting with the powder.
- Incompatible materials : Hydrofluoric acid.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Calcium sulfate (7778-18-9)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable fraction)
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)

Tetrasodium pyrophosphate (7722-88-5)		
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ (vacated PEL)

8.2. Exposure controls

- Appropriate engineering controls : 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 dusts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area. Use only appropriately classified electrical equipment and powered industrial trucks.

ARTMOLDS IMPRESSION MATERIAL-SILFREE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Personal protective equipment : Safety glasses. Gloves.



Materials for protective clothing : Wear long sleeves.
Hand protection : Chemical protective gloves.
Eye protection : Wear safety glasses with side shields.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder
Colour : White
Odour : Odourless.
Odour threshold : Not applicable
pH : Not applicable
Relative evaporation rate (butyl acetate=1) : Not applicable
Melting point : No data available
Freezing point : No data available
Boiling point : Not applicable
Flash point : No data available
Auto-ignition temperature : > 734°F (Minimum ignition temperature if dust cloud)
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : Not applicable
Relative vapour density at 20 °C : Not applicable
Relative density : 0.3 (water=1)
Solubility : Partially soluble in water
Solubility in water of component(s) of the mixture :
• Tetrasodium pyrophosphate: 20 g/l (at 20 °C) • Calcium sulfate: 2.23 g/l (at 0 °C)
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : Not applicable
Explosive properties : Not applicable
Oxidising properties : No data available
Explosive limits : LEL: 62 g/m³ (Minimum explosive concentration of dust)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactive to water.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Con.ditions to avoid

Avoid contact with vapor and humidity.

ARTMOLDS IMPRESSION MATERIAL-SILFREE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

10.5. Incompatible materials

Hydrofluoric acid.

10.6. Hazardous decomposition products

This product doesn't undergo spontaneous decomposition. Thermal decomposition generates : Carbon oxides. Nitrogen oxides. Sulfur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Alginate acid, sodium salt (9005-38-3)	
LD50 oral rat	> 5 g/kg

Tetrasodium pyrophosphate (7722-88-5)	
LD50 oral rat	1000 - 3000 mg/kg
ATE US (oral)	1000.000 mg/kg bodyweight

Calcium sulfate (7778-18-9)	
LD50 oral rat	> 3000 mg/kg

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after skin contact : May cause irritation. Repeated or prolonged skin contact may cause dermatitis and defatting.

Symptoms/injuries after eye contact : Serious damage to eyes. Symptoms include stinging, watering, redness, soreness and swelling.

Symptoms/injuries after inhalation : This product can produce a nuisance dust, which should be maintained below a time weighted average of 10 mg/m³.

Symptoms/injuries after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Calcium sulfate (7778-18-9)	
LC50 fish 1	2980 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish 2	> 1970 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

ARTMOLDS IMPRESSION MATERIAL-SILFREE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Alginic acid, sodium salt (9005-38-3)
--

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Tetrasodium pyrophosphate (7722-88-5)
--

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium sulfate (7778-18-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cellulose pulp (65996-61-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Alginic acid, sodium salt (9005-38-3)
--

Listed on the Canadian DSL (Domestic Substances List)

ARTMOLDS IMPRESSION MATERIAL-SILFREE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Tetrasodium pyrophosphate (7722-88-5)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Calcium sulfate (7778-18-9)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Cellulose pulp (65996-61-4)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

Tetrasodium pyrophosphate (7722-88-5)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Calcium sulfate (7778-18-9)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Cellulose pulp (65996-61-4)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No information available

Classification according to Directive 67/548/EEC or 1999/45/EC

No information available

15.2.2. National regulations

Alginic acid, sodium salt (9005-38-3)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican national Inventory of Chemical Substances)
Tetrasodium pyrophosphate (7722-88-5)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Canadian IDL (Ingredient Disclosure List)
Calcium sulfate (7778-18-9)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Cellulose pulp (65996-61-4)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations

ARTMOLDS IMPRESSION MATERIAL-SILFREE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

SECTION 16: Other information

Revision date : 04/20/2015

Full text of H-phrases:

-----	Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
-----	Eye Dam. 1	Serious eye damage/eye irritation, Category 1
-----	Skin Irrit. 2	Skin corrosion/irritation Category 2
-----	H302	Harmful if swallowed
-----	H315	Causes skin irritation
-----	H318	Causes serious eye damage

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product