

Section I: Identification

Product identifier used on the label:  - LA4000	Other means of identification  - Heat Defender™ - High temperature filling compound	Recommended use of the chemical and restrictions on use - Industrial and scientific research use. - Filler/Extender. - No data available on restrictions.
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Chemical manufacturer, importer, or other responsible party information:

Info-Gel LLC (USA) 2311 Distribution Center Drive, Suite F Charlotte, NC USA	Info-Gel LTD (IR) Unit 16, Annacotty Industrial State Annacotty Co., Limerick Ireland	EMERGENCY CONTACT: - Tel.: +1 704 599 5770 - Email: Sales@Info-Gel.com
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Section II: Hazard(s) identification

Chemical classification  - Not Classified	Precautionary statement(s)  - No Symbol - No Signal Word	Other unclassified hazards  - No Data available.
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If an ingredient with unknown acute toxicity is used in a mixture at a concentration = 1% and the mixture is not classified based on testing of the mixture as a whole, consider the below statement:  
\_\_\_\_% of the mixture consists of ingredient(s) of unknown acute toxicity.

Section III: Composition/ information on ingredients

Chemical/ Component name, common names, and synonyms	CAS number and other unique identifiers	Concentration of ingredients (%)	Impurities and stabilizing additives that contribute to the classification of the substance
1-Decene, homopolymer 68037-01-04	No data available	75 – 95	No data available
Fumed amorphous silica 67762-90-7	No data available	1 – 12	No data available
Styrene-Ethylene/Propylene- (Styrene) Polymer 68648-89-5	No data available	1 – 12	No data available
Benzene propanoic acid, 3,5-bis (1, dimethyl ethyl)- 4-hydroxy-, octadecyl ester 2082-79-3	No data available	0.4 – 2	No data available

Ingredients present above their cut-off/ concentration limits	No data available
Ingredients that present a health risk below the cut-off/concentration limits	No data available

Section IV: First-aid measures

If inhaled	No data available
Following ingestion	If accidentally swallowed, obtain immediate medical attention.
Following skin contact	Remove contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleaner.
Following eye contact	Irrigate copiously with clean water for a least 15 minutes, holding the eyelids apart. Remove contact lenses. Obtain medical attention.
Most important symptoms/ effects, acute and delayed	No data available
Indication of immediate medical attention	No data available

### Section V: Fire-fighting measures

<p>Suitable (and unsuitable) extinguishing media</p> <p>Use CO<sub>2</sub>, sand, extinguishing powders. Do not use water.</p>	<p>Specific hazards arising from the chemical</p> <ul style="list-style-type: none"> <li>- Exposure to hazardous decomposition products may cause a health hazard. Fire will produce dense black smoke.</li> <li>- Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide and smoke.</li> </ul>	<p>Special protective equipment and precautions for fire-fighters</p> <p>Appropriate breathing apparatus may be required.</p>
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### Section VI: Accidental release measures

<p>Personal precautions, protective equipment, and emergency procedures</p> <p>No data available.</p>	<p>Methods and materials for containment and cleaning up</p> <ul style="list-style-type: none"> <li>- Contain and collect spillage with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container according to local regulations.</li> <li>- The contaminated area should be cleaned up immediately with a suitable decontaminant.</li> <li>- Isolate area.</li> <li>- Keep unnecessary personnel away.</li> <li>- If the product contaminates rivers and lakes or sewage, inform respective authorities.</li> <li>- Do not allow to enter drains.</li> </ul>
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### Section VII: Handling and storage

<p>Precautions for safe handling</p> <ul style="list-style-type: none"> <li>- Product should only be used in areas in which all naked lights and other sources of ignition have been excluded.</li> <li>- Preparation may be charged electrostatically.</li> <li>- When transferring from one container to another apply grounding measures and use conductive hose material.</li> <li>- Avoid skin and eye contact.</li> <li>- Smoking, eating and drinking should be prohibited in application area.</li> <li>- Comply with health and safety at work laws.</li> <li>- Protect against electrostatic charges.</li> <li>- The product forms flammable fumes when overheated.</li> </ul>	<p>Conditions for safe storage or incompatibilities.</p> <ul style="list-style-type: none"> <li>- Keep container tightly closed.</li> <li>- No smoking.</li> <li>- Containers which are opened, must be carefully resealed and kept upright to prevent leakage.</li> <li>- Store away from oxidizing agents and strongly alkaline or acidic materials.</li> <li>- Observe label precautions.</li> <li>- Store in a dry, well-ventilated place.</li> <li>- Always keep in containers of the same material as the original one.</li> </ul>
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### Section VIII: Exposure controls/ personal protection

<p>OSHA Exposure Limit (PEL), (ACGIH) Threshold Limit Value (TLV) and any other exposure limit used</p>	<p><b>Silica, amorphous (-)</b>  <b>Austria:</b> 4 mg/m<sup>3</sup> MAK (inhalable fraction)  <b>Germany:</b> 4 mg/m<sup>3</sup> TWA (inhalable fraction) 4 mg/m<sup>3</sup> MAK (inhalable fraction)  <b>Ireland:</b> 6 mg/m<sup>3</sup> TWA (total inhalable dust); 2.4 mg/m<sup>3</sup> TWA (respirable dust)</p>
<p>Appropriate engineering controls.</p>	<ul style="list-style-type: none"> <li>- If relevant apply technical measures to comply with the occupational exposure limits.</li> <li>- This can be achieved by a good general extraction and if practically feasible, using a local exhaust ventilation.</li> </ul>
<p>Individual protection measures, such as personal protective equipment.</p>	<ul style="list-style-type: none"> <li>- For prolonged or repeated contact, use gloves.</li> <li>- Barrier creams may help to protect the exposed areas of the skin, they should however, not be applied once exposure has occurred.</li> <li>- The glove material must be impermeable and resistant to the product/the substance/ the preparation.</li> <li>- All parts of the skin should be washed after contact.</li> <li>- Working clothes must not consist of textiles which would show a dangerous melting behavior in case of fire.</li> <li>- Material for gloves: for example, KCL GmbH. D36124 Eichenzell. specification (Laboratory test according EN 374)</li> </ul>

Section IX: Physical and chemical properties			
Appearance (physical state, color, etc.)	- Paste, - Colorless, Opaque	Upper/lower flammability or explosive limits	No data available.
Odor	Aromatic	Vapor pressure	No data available.
Odor threshold	No data available.	Vapor density	No data available.
PH	No data available.	Relative density / Specific gravity	0.84 g/cm3.
Melting point/ freezing point	No data available.	Solubility(ies)	(H2O): Not miscible.
Initial boiling point and boiling range	No data available.	Partition coefficient: n-octanol/water	No data available.
Flash point	>260°C	Auto-ignition temperature	>400°C
Evaporation rate	No data available.	Decomposition temperature	No data available.
Flammability (solid, gas)	No data available.	Viscosity	Circa. 20,000 mPas

Section X: Stability and reactivity			
Reactivity	No data available.	Conditions to avoid (e.g., static discharge, shock, or vibration)	No data available.
Chemical stability	Stable under recommended storage and handling conditions	Incompatible materials	Keep well away from oxidizing agents and strongly alkaline or strongly acid materials.
Possibility of hazardous reactions	No data available.	Hazardous decomposition products	Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide and smoke.

Section XI: Toxicological information			
Routes of exposure	Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in a non- allergic contact dermatitis. The liquid splashed in the eyes may cause irritation and irreversible damage.	Listed in the National Toxicology Program (NTP) or found to be a potential carcinogen in the International Agency for Research on Cancer (IARC), or by OSHA.	None of the substances in this preparation are listed by NTP, IARC or OSHA.
Symptoms related to the physical, chemical, and toxicological characteristics	No data available.	Delayed, immediate and chronic effects from short/ long term exposure	No data available.
Numerical measures of toxicity		Inhalation	Oral
1-Decene, homopolymer 68037-01-4		LC50 Rat >5.2 mg/L 4 h;	LD50 Rat >5000 mg/kg;
Fumed amorphous silica 67762-90-7		Toxicity not expected	LD50 Rat >5000 mg/kg;
Styrene-Ethylene/Propylene- (Styrene) Polymer 68648-89-5		Toxicity not expected	LD50, Rabbit, > 2,000 mg/kg
Benzene propanoic acid, 3,5-bis (1, dimethyl ethyl)- 4-hydroxy-, octadecyl ester 2082-79-3		LC50 Rat >1.8 mg/L 4 h;	LD50 Rat >2000 mg/kg;
			Dermal
			Toxicity not expected
			LD50 Rat >2000 mg/kg;

### Section XII: Ecological Information

#### Ecotoxicity

The components of this product are not considered toxic for aquatic or terrestrial life, except for:  
Component 67762-90-7 is considered very toxic to aquatic life with long lasting effects.

#### Persistence and degradability

No information available for the product.

#### Bio-accumulative potential

No information available for the product.

#### Mobility in soil

No information available for the product.

#### Other adverse effects

**Slightly hazardous for water:** Do not allow product to reach ground, water, water bodies or sewage system, even in small quantities.

### Section XIII: Disposal Considerations

Must not be disposed of together with household garbage.  
Do not allow to enter drains.  
Can be disposed in landfill.  
Emptied containers should be disposed of into scrap recycling or reconditioning respectively.

### Section XIV: Transport information

Not Dangerous Goods. (For reference only, please check ADR/ RID / IMDG / IATA regulations)

### Section XV: Regulatory Information

Component/CAS	EC #	CAN	TSCA
1-Decene, homopolymer 68037-01-4	500-183-1	DSL	Listed
Fumed amorphous silica 67762-90-7	No data available	DSL	Listed
Styrene-Ethylene/Propylene-(Styrene) Polymer 68648-89-5	No data available	DSL	Listed
Benzenepropanoic acid, 3,5-bis (1,1-dimethylethyl)-4-hydroxy-, octadecyl ester 2082-79-3	218-216-0	DSL	Listed

### Section XVI: Other information, including date of preparation or last revision

#### Abbreviations, acronyms, and other information.

ACGIH = American Conference of Governmental Industrial Hygienists.  
ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail.  
ADR/RID = European Agreement of Dangerous Goods by Road/Rail.  
AS = Standards Australia.  
DFG = Deutsche Forschung Gemeinschaft;  
DOT = Department of Transportation;  
DSL = Domestic Substances List.  
EEC = European Economic Community.  
EINECS = European Inventory of Existing Commercial Chemical Substances.  
ELINCS = European List of Notified Chemical Substances.  
EU = European Union.  
HMIS = Hazardous Materials Identification System.

IARC = International Agency for Research on Cancer.  
IMO = International Maritime Organization.  
IATA = International Air Transport Association.  
MAK = Maximum Concentration Value in the Workplace.  
NDSL = Non-Domestic Substances List.  
NFPA = National Fire Protection Association.  
NOHSC = National Occupational Health & Safety Commission.  
NTP = National Toxicology Program.  
STEL = Short-term Exposure Limit.  
TDG = Transportation of Dangerous Goods.  
TLV = Threshold Limit Value.  
TSCA = Toxic Substances Control Act.  
TWA = Time Weighted Average

#### Other Information

The information on this Safety Data Sheet is based on the present state of our knowledge and on current EU and national laws. The user's working conditions are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps to fulfill the demands laid in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of our product. It is not to be considered as a guarantee of the product's properties.

For document preparation date or the last change date see footer.