



# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/08/2020

Version 11

Reviewed on 07/08/2020

## 1 Identification

- **Product identifier**
- **Trade name: Food Grade H1 Silicone Grease**
- **Article number:** 56941501
- **Application of the substance / the mixture** Grease
- **Details of the supplier of the safety data sheet**
- **Supplier:**  
Alfa Laval Tumba AB  
Hans Stahles väg 7  
S-147 80 Tumba  
Sweden  
+46 8 530 650 00  
info.se@alfalaval.com
- **Information department:**  
For additional questions regarding safety data sheets please contact your local Alfa Laval Sales Company which you find on [www.alfalaval.com](http://www.alfalaval.com) or in safety data sheet under section 16: Other Informaion
- **Emergency telephone number:** US and Canada: 911

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

- **vPvB:**

CAS: 540-97-6	Dodecamethyl cyclohexasiloxane
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## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**  
The product contains no substances for labeling in such quantities that they need to be declared under the current legislation.
- **Dangerous components:**

CAS: 540-97-6	Dodecamethyl cyclohexasiloxane	vPvB	0.27-0.29%
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## 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air.

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- **After skin contact:**  
Wash with water and soap.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **Special hazards arising from the substance or mixture**  
Carbon monoxide and carbon dioxide  
Formaldehyde  
Silica  
Fluorine compounds
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information** Cool endangered receptacles with water spray.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
See Section 8 for information on personal protection equipment.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Send for recovery or disposal in suitable receptacles.  
In case of seepage into the ground inform responsible authorities.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

All components have the value 150 mg/m<sup>3</sup>.

· **PAC-2:**

All components have the value 1,700 mg/m<sup>3</sup>.

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**· PAC-3:**

All components have the value 9,900 mg/m<sup>3</sup>.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
When using do not eat or drink.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** None.
- **Specific end use(s)** Professional use only.

### 8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Wash hands before breaks and at the end of work.  
The usual precautionary measures for handling chemicals should be followed.  
Use only in well-ventilated areas.  
Take off contaminated clothing.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves** Not required.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**  
If eye contact is likely, safety glasses with side shields are recommended.



Safety glasses

- **Limitation and supervision of exposure into the environment**  
Do not allow product to reach sewage system or any water course.  
Send for recovery or disposal in suitable receptacles.  
In case of seepage into the ground inform responsible authorities.

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### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

- **Form:** Highly viscous

- **Color:** White

- **Odor:** Odorless

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

- **Melting point/Melting range:** Undetermined.

- **Boiling point/Boiling range:** Undetermined.

- **Flash point:** >200 °C (>392 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

- **Lower:** Not determined.

- **Upper:** Not determined.

- **Oxidizing properties** Not applicable.

- **Vapor pressure:** Not determined.

- **Density at 20 °C (68 °F):** 1.2 g/cm<sup>3</sup> (10.014 lbs/gal)

- **Relative density** 1.2

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

- **Water:** Not determined.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

- **Dynamic:** Not determined.

- **Kinematic:** Not determined.

- **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** Material is stable under normal conditions.

- **Chemical stability**

Stable under normal temperature conditions and under recommended usage and storage.

- **Thermal decomposition / conditions to be avoided:**

To avoid thermal decomposition do not overheat.

No decomposition if used according to specifications.

- **Possibility of hazardous reactions** No dangerous reactions known.

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- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Iron
- **Hazardous decomposition products:**  
Formation of toxic gases is possible during heating or in case of fire.  
Formaldehyde  
Chlorine compounds

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**CAS: 540-97-6 Dodecamethyl cyclohexasiloxane**

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

**CAS: 540-97-6 Dodecamethyl cyclohexasiloxane**

EC50 (72 h)	>0.002 mg/L (Algae)
NOEC - No observed effect concentration	0.0046 mg/l (Daphnia) (21 d)

- **Persistence and degradability**

**CAS: 540-97-6 Dodecamethyl cyclohexasiloxane**

Biodegradability | 57 % (28 d, OECD test 301B)

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- **Behavior in environmental systems:**

- **Bioaccumulative potential**

**CAS: 540-97-6 Dodecamethyl cyclohexasiloxane**

Bioconcentration factor	<100
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log Pow	8.87
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- **Mobility in soil**

The product is expected to have high mobility in soil.

**CAS: 540-97-6 Dodecamethyl cyclohexasiloxane**

Koc	0-50
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- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:**

CAS: 540-97-6	Dodecamethyl cyclohexasiloxane
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- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:**

Packagings that cannot be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**

· <b>DOT, ADR, ADN, IMDG, IATA</b>	Void
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- **UN proper shipping name**

· <b>DOT, ADR, ADN, IMDG, IATA</b>	Void
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- **Transport hazard class(es)**

- **DOT, IMDG, IATA**

· <b>Class</b>	Void
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· <b>Label</b>	-
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- **ADR, ADN**

· <b>Class</b>	Void
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- **Packing group**

· <b>DOT, ADR, IMDG, IATA</b>	Void
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- **Environmental hazards:**

· <b>Marine pollutant:</b>	No
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- |  |                 |
|--|-----------------|
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Void            |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 EU Regulation (EC) no.1907/2006 (REACH)  
 TSCA (Toxic Substance Control Act) - All chemical components in this material are included in, or are exceptions from the TSCA listing.

- **Sara**

· <b>Section 355 (extremely hazardous substances):</b>
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None of the ingredients is listed.
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· <b>Section 313 (Specific toxic chemical listings):</b>
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None of the ingredients is listed.
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· <b>TSCA (Toxic Substances Control Act):</b>
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All components have the value ACTIVE.
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· <b>Hazardous Air Pollutants</b>
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None of the ingredients is listed.
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- **Proposition 65**

· <b>Chemicals known to cause cancer:</b>
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None of the ingredients is listed.
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· <b>Chemicals known to cause reproductive toxicity for females:</b>
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None of the ingredients is listed.
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· <b>Chemicals known to cause reproductive toxicity for males:</b>
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None of the ingredients is listed.
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· <b>Chemicals known to cause developmental toxicity:</b>
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None of the ingredients is listed.
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- **Carcinogenic categories**

· <b>EPA (Environmental Protection Agency)</b>
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None of the ingredients is listed.
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· <b>TLV (Threshold Limit Value established by ACGIH)</b>
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None of the ingredients is listed.
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· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
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None of the ingredients is listed.
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- **GHS label elements** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

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**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

#### LIMITATION OF LIABILITY

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can be proven that Alfa Laval has acted in a grossly negligent manner. Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.

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#### Contact:

Please contact your local Alfa Laval Sales Company for further questions.

Argentina: [alfa.consulta@alfalaval.com](mailto:alfa.consulta@alfalaval.com)

Australia: [australia.info@alfalaval.com](mailto:australia.info@alfalaval.com)

Austria: [info.mideurope@alfalaval.com](mailto:info.mideurope@alfalaval.com)

Belgium: [benelux.info@alfalaval.com](mailto:benelux.info@alfalaval.com)

Bolivia: [alfa.consulta@alfalaval.com](mailto:alfa.consulta@alfalaval.com)

Brazil: [alfalaval.br@alfalaval.com](mailto:alfalaval.br@alfalaval.com)

Bulgaria: [bulgaria.info@alfalaval.com](mailto:bulgaria.info@alfalaval.com)

Canada: [alfacan.info@alfalaval.com](mailto:alfacan.info@alfalaval.com)

Chile: [chile.informacion@alfalaval.com](mailto:chile.informacion@alfalaval.com)

China: [china.info@alfalaval.com](mailto:china.info@alfalaval.com)

Colombia: [info.colombia@alfalaval.com](mailto:info.colombia@alfalaval.com)

Croatia: [hrvatska.info@alfalaval.com](mailto:hrvatska.info@alfalaval.com)

Czech Republic: [czechrepublic.info@alfalaval.com](mailto:czechrepublic.info@alfalaval.com)

Denmark: [info.nordic.dk@alfalaval.com](mailto:info.nordic.dk@alfalaval.com)

Egypt: [alme.marketing@alfalaval.com](mailto:alme.marketing@alfalaval.com)

Estonia: [estonia.info@alfalaval.com](mailto:estonia.info@alfalaval.com)

Finland: [info.fi@alfalaval.com](mailto:info.fi@alfalaval.com)

France: [environnement@alfalaval.com](mailto:environnement@alfalaval.com)

Germany: [info.mideurope@alfalaval.com](mailto:info.mideurope@alfalaval.com)

Greece: [greece.info@alfalaval.com](mailto:greece.info@alfalaval.com)

Hungary: [info.hu@alfalaval.com](mailto:info.hu@alfalaval.com)

India: [india.info@alfalaval.com](mailto:india.info@alfalaval.com)

Indonesia: [alfalindo@alfalaval.com](mailto:alfalindo@alfalaval.com)

Israel: [israel.info@alfalaval.com](mailto:israel.info@alfalaval.com)

Italy: [alfalaval.italia@alfalaval.com](mailto:alfalaval.italia@alfalaval.com)

Latvia: [latvia.info@alfalaval.com](mailto:latvia.info@alfalaval.com)

Lithuania: [lithuania.info@alfalaval.com](mailto:lithuania.info@alfalaval.com)

Malaysia: [malaysia.info@alfalaval.com](mailto:malaysia.info@alfalaval.com)

Mexico: [mexico.info@alfalaval.com](mailto:mexico.info@alfalaval.com)

The Netherlands: [benelux.info@alfalaval.com](mailto:benelux.info@alfalaval.com)

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**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

**\* Data compared to the previous version altered.**

US