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Version 5.01

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

#### 1.1. Product identifier

**Product name** Silicone Grease

**Product Codes** A665016, 665016-TUB, A665017, PH041 PHCB041, ASG50

**Pure substance/mixture** Mixture

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

**Recommended Use** Grease

**Uses advised against** No information available

#### 1.3. Details of the supplier of the safety data sheet

**Arctic Hayes Ltd**  
Unit 9 Millshaw Park Ave | Leeds | LS11 0LR | United kingdom  
sales@arctic-hayes.com | www.arctic-hayes.com  
☎ 0113 271 5245

#### 1.4. Emergency telephone number

**Emergency telephone**  
0113 271 4245 (Mon-Thur: 08:30-17:00 | Fri: 08:30-16:00)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

<b>Chronic aquatic toxicity</b>	Category 3 - (H412)
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#### 2.2. Label elements

##### Hazard statements

H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

**2.3. Other hazards**

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).\*\*\*

This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	EC No (EU Index No)	CAS No.	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Octamethylcyclotetrasiloxane***	209-136-7	556-67-2	No data available	Flam. Liq. 3 (H226) Repr. 2 (H361f) Aquatic Chronic 1 (H410)(M=10)	>=0.025 - <0.1
Dodecamethylcyclohexasiloxane***	208-762-8	540-97-6	No data available	No data available	<0.1
Decamethylcyclopentasiloxane***	208-764-9	541-02-6	No data available	No data available	<0.1

Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Remarks
Octamethylcyclotetrasiloxane	–	–	10	–

**Full text of H- and EUH-phrases: see section 16****Acute Toxicity Estimate**

No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	SVHC candidates
Octamethylcyclotetrasiloxane 556-67-2	X
Dodecamethylcyclohexasiloxane*** 540-97-6	X
Decamethylcyclopentasiloxane*** 541-02-6	X

**SECTION 4: First aid measures****4.1. Description of first aid measures****General advice**

IF exposed or concerned: Get medical advice/attention.

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. In the case of skin irritation or allergic reactions see a doctor.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

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

<b>Symptoms</b>	None known.
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#### **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to doctors</b>	Treat symptomatically.
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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Alcohol resistant foam. Cool containers with flooding quantities of water until well after fire is out.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

#### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapours.
<b>Hazardous combustion products</b>	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ).

#### **5.3. Advice for firefighters**

<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Ensure adequate ventilation.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Should not be released into the environment.
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#### **6.3. Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
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**Methods for cleaning up** Use personal protective equipment as required. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

#### **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information. See Section 12 for additional Ecological Information.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Advice on safe handling** Ensure adequate ventilation. See section 8 for more information. Use personal protection equipment.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

### **7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Never use pressure to empty; drum is not a pressure vessel.

### **7.3. Specific end use(s)**

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### **8.2. Exposure controls**

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

#### **Personal Protective Equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Gloves must conform to standard EN 374.

Gloves

Duration of contact	PPE - Glove material	Glove thickness	Break through time
Long term (repeated)	Wear protective nitrile rubber gloves	>=0.4 mm	>=480 minutes

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Paste / Gel Liquid
<b>Colour</b>	translucent white
<b>Odour</b>	characteristic.
<b>Odour threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point/freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	> 150 °C	
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Flash Point</b>	> 100 °C	
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition temperature</b>		None known
<b>pH</b>	No data available	
<b>pH (as aqueous solution)</b>	No data available	No information available
<b>Kinematic viscosity</b>	No data available	@ 40°C
<b>Dynamic viscosity</b>	No data available	None known
<b>Water solubility</b>	< 1.0 %	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Vapour pressure</b>	No data available	
<b>Relative Density</b>	approx. 1.035 g/cm <sup>3</sup>	
<b>Bulk Density</b>	No data available	
<b>Density</b>	No data available	
<b>Vapour Density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

### 9.2. Other information

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No information available.

## **10.2. Chemical stability**

**Stability** Stable under normal conditions.

### **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

## **10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

## **10.4. Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

## **10.5. Incompatible materials**

**Incompatible materials** Acids. Bases. Incompatible with oxidising agents.

## **10.6. Hazardous decomposition products**

**Hazardous decomposition products** Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

# **SECTION 11: Toxicological information**

## **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

### **Information on likely routes of exposure**

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

### **Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

### **Numerical measures of toxicity**

#### **Acute toxicity**

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

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

Chemical name	European Union
Octamethylcyclotetrasiloxane	Repr. 2

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

#### Product Information

**Biodegradation** No information available

**BOD** No information available

**ThCO<sub>2</sub>** No information available

**DOC** No information available

### 12.3. Bioaccumulative potential

**Bioaccumulation (factor)** No information available

### 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Octamethylcyclotetrasiloxane	PBT substance
Dodecamethylcyclohexasiloxane***	vPvB substance
Decamethylcyclopentasiloxane***	vPvB substance

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

## 12.7. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

**Contaminated packaging** Contaminated packages must be completely emptied and can be re-used following proper cleaning. Clean IBCs or drums at approved facility. Packaging which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the product itself.

# SECTION 14: Transport information

## IATA

14.1 UN number or ID number Not regulated  
 14.2  
 14.3 Transport hazard class(es) Not regulated  
 14.4 Packing group Not regulated  
 14.5 Environmental Hazard Not applicable  
 14.6 Special precautions for user  
 Special Provisions None

## IMDG

14.1 UN number or ID number Not regulated  
 14.2  
 14.3 Transport hazard class(es) Not regulated  
 14.4 Packing group Not regulated  
 14.5 Environmental Hazard Not applicable  
 14.6 Special precautions for user  
 Special Provisions None  
 14.7 Maritime transport in bulk according to IMO instruments No information available

## RID

14.1 UN number or ID number Not regulated  
 14.2  
 14.3 Transport hazard class(es) Not regulated  
 14.4 Packing group Not regulated  
 14.5 Environmental Hazard Not applicable



**14.6 Special precautions for user  
Special Provisions**

None

**ADR****14.1 UN number or ID number** Not regulated**14.2****14.3 Transport hazard class(es)** Not regulated**14.4 Packing group** Not regulated**14.5 Environmental Hazard** Not applicable**14.6 Special precautions for user  
Special Provisions**

None

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Germany****Water hazard class (WGK)** slightly hazardous to water (WGK 1)**Storage class** 10

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
Octamethylcyclotetrasiloxane	–	–	Fertility Category 2

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Octamethylcyclotetrasiloxane - 556-67-2	70. 75.	–
Decamethylcyclopentasiloxane*** - 541-02-6	70.	–

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories****TSCA**

Complies

**DSL/NDSL**

Contact supplier for inventory compliance status

**EINECS/ELINCS**

Complies

**ENCS**

Contact supplier for inventory compliance status

**IECSC**

Contact supplier for inventory compliance status

**KECL**

Contact supplier for inventory compliance status

<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AICS</b>	Contact supplier for inventory compliance status
<b>NZIoC</b>	Contact supplier for inventory compliance status
<b>NECI</b>	Contact supplier for inventory compliance status

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals  
**NECI** - Taiwan National Existing Chemical Inventory

**15.2. Chemical safety assessment**

**Chemical Safety Report** Chemical safety assessments for substances in this mixture were not carried out For this substance a chemical safety assessment has not been carried out

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H226 - Flammable liquid and vapour  
H361f - Suspected of damaging fertility  
H410 - Very toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

**Emergency telephone number**

Czech Republic	+420 228 882 830 (NCEC 24/7)
Denmark	+45 8988 2286 (NCEC 24/7)
Finland	+358 9 7479 0199 (NCEC 24/7)
France	+33 1 72 11 00 03 (NCEC 24/7)
Germany	+49 89 220 61012 (NCEC 24/7)
Greece	+30 21 1198 3182 (NCEC 24/7)
Italy	+39 02 3604 2884 (NCEC 24/7)
Netherlands	+31 10 713 8195 (NCEC 24/7)
Norway	+47 2103 4452 (NCEC 24/7)
Poland	+48 22 307 3690 (NCEC 24/7)
Portugal	+351 30880 4750 (NCEC 24/7)
Spain	+34 91 114 2520 (NCEC 24/7)
Sweden	+46 8 566 42573 (NCEC 24/7)
Turkey	+90 212 375 5231 (NCEC 24/7)
Middle East	+973 1619 8321 (NCEC 24/7)
Middle East / Africa	+44 1235 239671 (NCEC 24/7)

**Legend**

SVHC: Substances of Very High Concern for Authorisation:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

**Legend SECTION 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Classification procedure**

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
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Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AELG(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
 Organisation for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

**Revision date** 06-Mar-2024

**Revision note** See the red text with asterisks in this safety data sheet for the latest changes.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

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

**End of Safety Data Sheet**