



# HUGH CRANE

— Cleaning Equipment Limited —

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Dow Corning® 7 Release Compound

Page 1 of 8

## SAFETY DATA SHEET

According to Reg (EU) No 2015/830

# DOW CORNING® 7 RELEASE COMPOUND

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING.

**Product Name:** Dow Corning® 7 Release Compound  
**Identified Uses:** Lubricants and lubricant additives. Anti-set off and adhesive agents.  
**Uses Advised Against:** None known.  
**Supplier Name:** Hugh Crane (Cleaning Equipment) Ltd.  
**Supplier Address:** South Walsham Road, Acle  
Norwich, NR13 3ES  
**Telephone:** Tel: 01493 750072 Fax: 01493 751854  
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### 2. HAZARDS IDENTIFICATION.

#### Classification Of The Substance Or Mixture

**Classification according to Reg (EC) No 1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

#### Label Elements

**Labelling according to Regulation (EC) No 1272/2008:**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### **2.3 Other hazards**

This product contains dodecamethylcyclohexasiloxane (D6) that has been identified by the Member State Committee of ECHA as fulfilling the vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006. See Section 12 for additional information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS.

**Chemical Nature:** Silicone compound  
**Mixtures :** This product is a mixture

Component	CAS No	EC No	Index No	REACH Reg No	Concentration	Classification
Dodecamethyl cyclohexasiloxane	540-97-6	208-762-8	-	-	>= 0.1 - <= 0.11 %	Not classified

### 4. FIRST AID MEASURES.

#### **Description of first aid measures**

**General advice:** If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Skin contact:** Wash off with plenty of water.

**Eye contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Ingestion:** No emergency medical treatment necessary.

#### **Most important symptoms and effects, both acute and delayed:**

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

#### **Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. FIRE-FIGHTING MEASURES.

#### **5.1 Extinguishing media**

**Suitable extinguishing media:** Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical

**Unsuitable extinguishing media:** None known.

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

**Hazardous combustion products:** Carbon oxides Silicon oxides Boron oxides Formaldehyde

**Unusual Fire and Explosion Hazards:** Exposure to combustion products may be a hazard to health.



### 5.3 Advice for firefighters

#### Fire Fighting Procedures:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES.

**6.1 Personal precautions, protective equipment and emergency procedures:** Follow safe handling advice and personal protective equipment recommendations.

**6.2 Environmental precautions:** Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

**6.3 Methods and materials for containment and cleaning up:** Soak up with inert absorbent material. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean-up of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### 6.4 Reference to other sections:

See sections: 7, 8, 11, 12 and 13.

## 7. HANDLING AND STORAGE.

**7.1 Precautions for safe handling:** Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep in properly labelled containers. Store in accordance with the particular national regulations.

**Do not store with the following product types:** Strong oxidizing agents.

**Unsuitable materials for containers:** None known.

**7.3 Specific end use(s):** See the technical data sheet on this product for further information.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

### 8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable. Although some of the components of this product may have exposure guidelines, no exposure would be expected under normal handling conditions due to the physical state of the material.

#### Derived No Effect Level

Dodecamethyl cyclohexasiloxane

#### Workers

Acute systemic effects		Acute local effects		Long-term systemic effects		Long-term local effects	
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
n.a.	n.a.	n.a.	6.1 mg/m <sup>3</sup>	n.a.	11 mg/m <sup>3</sup>	n.a.	1.22 mg/m <sup>3</sup>

#### Consumers

Acute systemic effects			Acute local effects		Long-term systemic effects			Long-term local effects	
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a.	n.a.	1.7 mg/kg bw/day	n.a.	1.5 mg/m <sup>3</sup>	n.a.	2.7 mg/m <sup>3</sup>	1.7 mg/kg bw/day	n.a.	0.3 mg/m <sup>3</sup>

#### Predicted No Effect Concentration

Dodecamethyl cyclohexasiloxane

Compartment	PNEC
Fresh water sediment	2.826 mg/kg
Marine sediment	0.282 mg/kg
Soil	3.336 mg/kg
Sewage treatment plant	> 1.0 mg/l

### 8.2 Exposure controls

#### Engineering controls:

Use local exhaust ventilation, or other engineering controls to maintain airborne



levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

## Individual protection measures

### Eye/face protection:

Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.

### Skin protection

### Hand protection:

Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. Examples of acceptable glove barrier materials include: Natural rubber ("latex"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended. Glove thickness alone is not a good indicator of the level of protection a glove provides against a chemical substance as this level of protection is also highly dependent on the specific composition of the material that the glove is fabricated from. The thickness of the glove must, depending on model and type of material, generally be more than 0.35 mm to offer sufficient protection for prolonged and frequent contact with the substance. As an exception to this general rule it is known that multilayer laminate gloves may offer prolonged protection at thicknesses less than 0.35 mm. Other glove materials with a thickness of less than 0.35 mm may offer sufficient protection when only brief contact is expected. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

### Other protection:

### Respiratory protection:

Wear clean, body-covering clothing. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapour cartridge, type A (boiling point >65 °C, meeting standard EN 14387).

**Environmental exposure controls:** See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

## 9. PHYSICAL AND CHEMICAL PROPERTIES.

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

Physical state	viscous liquid
Colour	white translucent
Odour	slight
Odour Threshold	No data available
pH	No data available
Melting point/range	No data available
Freezing point	No data available
Boiling point (760 mmHg)	> 65 °C
Flash point closed cup	>101.1 °C
Evaporation Rate (Butyl Acetate = 1)	No data available
Flammability (solid, gas)	Not applicable
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour Pressure	No data available
Relative Vapour Density (air = 1)	No data available



Relative Density (water = 1)	1.1
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic Viscosity	500000 cSt at 25 °C
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

## 9.2 Other information

Molecular weight	No data available
Particle size	Not applicable

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## 10. STABILITY AND REACTIVITY.

Reactivity:	Not classified as a reactivity hazard.
Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Can react with strong oxidising agents.
Conditions to Avoid:	None known.
Incompatible Materials:	Oxidising agents.
Hazardous Decomposition Products:	Formaldehyde.

## 11. TOXICOLOGICAL INFORMATION.

Toxicological information appears in this section when such data is available.

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute oral toxicity:	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
As product:	Single dose oral LD50 has not been determined.
Based on information for component(s):	LD50, Rat, > 5,000 mg/kg Estimated.

Acute dermal toxicity:	Prolonged skin contact is unlikely to result in absorption of harmful amounts.
As product:	The dermal LD50 has not been determined.
Based on information for component(s):	LD50, Rabbit, > 2,000 mg/kg Estimated. No deaths occurred at this concentration.

Acute inhalation toxicity:	Brief exposure (minutes) is not likely to cause adverse effects. Vapour from heated material or mist may cause respiratory irritation.
As product:	The LC50 has not been determined.

Skin corrosion/irritation:	Brief contact is essentially non-irritating to skin.
Serious eye damage/eye irritation:	May cause slight temporary eye irritation. Corneal injury is unlikely.

Sensitisation:	Contains component(s) which did not cause allergic skin sensitisation in guinea pigs.
For respiratory sensitization:	No relevant data found.

#### **Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### **Specific Target Organ Systemic Toxicity (Repeated Exposure)**

For the component(s) tested:	Based on available data, repeated exposures are not anticipated to cause significant adverse effects.
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#### **Carcinogenicity**

For the component(s) tested:	Did not cause cancer in laboratory animals.
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#### **Teratogenicity**

For the component(s) tested:	Did not cause birth defects or any other fetal effects in laboratory animals.
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## Reproductive toxicity

**For the component(s) tested:** In animal studies, did not interfere with reproduction.

## Mutagenicity

**For the component(s) tested:** In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

## Aspiration Hazard:

Based on physical properties, not likely to be an aspiration hazard.

## COMPONENTS INFLUENCING TOXICOLOGY

### Dodecamethyl cyclohexasiloxane

**Acute inhalation toxicity:** The LC50 has not been determined.

## 12. ECOLOGICAL INFORMATION.

Ecotoxicological information appears in this section when such data is available.

### 12.1 Toxicity

#### Dodecamethyl cyclohexasiloxane

**Acute toxicity to algae/aquatic plants:** Not expected to be acutely toxic to aquatic organisms.

No toxicity at the limit of solubility

ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, > 0.002 mg/l

**Chronic toxicity to aquatic invertebrates:** No toxicity at the limit of solubility

NOEC, Daphnia magna (Water flea), 21 d, 0.0046 mg/l

### 12.2 Persistence and degradability

#### Dodecamethyl cyclohexasiloxane

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

**10-day Window:** Fail

**Biodegradation:** 57 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 301B

### 12.3 Bioaccumulative potential

#### Dodecamethyl cyclohexasiloxane

**Bioaccumulation:** Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7).

**Partition coefficient: n-octanol/water(log Pow):** 8.87

### 12.4 Mobility in soil

#### Dodecamethyl cyclohexasiloxane

Potential for mobility in soil is very high (Koc between 0 and 50).

### 12.5 Results of PBT and vPvB assessment

#### Dodecamethyl cyclohexasiloxane

Dodecamethyl cyclohexasiloxane (D6) meets the current REACH Annex XIII criteria for vPvB. However, D6 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D6 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

### 12.6 Other adverse effects

#### Dodecamethyl cyclohexasiloxane

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## 13. DISPOSAL CONSIDERATIONS.

### 13.1 Waste treatment methods

Do not dump into any sewers, on the ground, or into any body of water. This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.



## 14. TRANSPORT INFORMATION.

### Classification for ROAD and Rail transport (ADR/RID):

- 14.1 UN number Not applicable  
14.2 UN proper shipping name Not regulated for transport  
14.3 Transport hazard class(es) Not applicable  
14.4 Packing group Not applicable  
14.5 Environmental hazards Not considered environmentally hazardous based on available data.  
14.6 Special precautions for user No data available.

### Classification for SEA transport (IMO-IMDG):

- 14.1 UN number Not applicable  
14.2 UN proper shipping name Not regulated for transport  
14.3 Transport hazard class(es) Not applicable  
14.4 Packing group Not applicable  
14.5 Environmental hazards Not considered as marine pollutant based on available data.  
14.6 Special precautions for user No data available.

14.7 Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code: Consult IMO regulations before transporting ocean bulk

### Classification for AIR transport (IATA/ICAO):

- 14.1 UN number Not applicable  
14.2 UN proper shipping name Not regulated for transport  
14.3 Transport hazard class(es) Not applicable  
14.4 Packing group Not applicable  
14.5 Environmental hazards Not applicable  
14.6 Special precautions for user No data available.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. REGULATORY INFORMATION.

### Safety, Health & Environmental Regulations/Legislation Specific for the Substance or Mixture

#### REACH Regulation (EC) No 1907/2006

This product contains only components that have been either pre-registered, registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH). The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

#### Authorisation status under REACH:

The following substance/s contained in this product might be or is/are subject to authorization in accordance with REACH:

CAS-No.: 540-97-6

Name: Dodecamethyl cyclohexasiloxane

- Authorisation status: Listed in the Candidate List of Substances of Very High Concern for Authorisation  
Authorisation number: Not available  
Sunset date: Not available  
Exempted (Categories of) Uses: Not available

#### Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Listed in Regulation: Not applicable

#### 15.2 Chemical safety assessment

Not applicable

## 16. OTHER INFORMATION.

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008

This product is not classified as dangerous according to EC criteria.

#### Revision

Identification Number: 1954300 / A670



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Revision Date 17/10/2018

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Page 7 of 8

**Issue Date:**

17<sup>th</sup> October 2018 / Version: 3.0

## Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road;

AICS - Australian Inventory of Chemical Substances;

ASTM - American Society for the Testing of Materials;

bw - Body weight;

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008;

CMR - Carcinogen, Mutagen or Reproductive Toxicant;

DIN - Standard of the German Institute for Standardisation;

DSL - Domestic Substances List (Canada);

ECHA - European Chemicals Agency;

EC-Number - European Community number;

ECx - Concentration associated with x% response;

ELx - Loading rate associated with x% response;

EmS - Emergency Schedule;

ENCS - Existing and New Chemical Substances (Japan);

ErCx - Concentration associated with x% growth rate response;

GHS - Globally Harmonized System;

GLP - Good Laboratory Practice;

IARC - International Agency for Research on Cancer;

IATA - International Air Transport Association;

IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;

IC50 - Half maximal inhibitory concentration;

ICAO - International Civil Aviation Organization;

IECSC - Inventory of Existing Chemical Substances in China;

IMDG - International Maritime Dangerous Goods;

IMO - International Maritime Organization;

ISHL - Industrial Safety and Health Law (Japan);

ISO - International Organisation for Standardization;

KECI - Korea

Existing Chemicals Inventory;

LC50 - Lethal Concentration to 50 % of a test population;

LD50 - Lethal

Dose to 50% of a test population (Median Lethal Dose);

MARPOL - International Convention for the Prevention of Pollution from Ships;

n.o.s. - Not Otherwise Specified;

NO(A)EC - No Observed

(Adverse) Effect Concentration;

NO(A)EL - No Observed (Adverse) Effect Level;

NOELR - No Observable Effect Loading Rate;

NZIoC - New Zealand Inventory of Chemicals;

OECD - Organization for Economic Co-operation and Development;

OPPTS - Office of Chemical Safety and Pollution Prevention;

PBT - Persistent, Bioaccumulative and Toxic substance;

PICCS - Philippines Inventory of Chemicals and Chemical Substances;

(Q)SAR - (Quantitative) Structure Activity Relationship;

REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals;

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail;

SADT - Self-Accelerating Decomposition Temperature;

SDS - Safety Data Sheet;

SVHC - Substance of Very High Concern;

TCSI - Taiwan Chemical Substance Inventory;

TRGS - Technical Rule for Hazardous Substances;

TSCA - Toxic Substances Control Act (United States);

UN - United Nations;

vPvB - Very Persistent and Very Bioaccumulative

## Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.



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Revision Date 17/10/2018

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Page 8 of 8

The supplier urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

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**End of Safety Data Sheet.**