



# Safety Data Sheet According to 1907/2006/EC, Article 31

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## 1. Identification of Product and Company's Name:

### PRODUCT DETAIL

**Trade Name:** OWS 531 Silicon Spray

**Article Number:** 531

**Application of the substance / the preparation:**

**Manufacturer / Supplier:**

Our Workshop System (S) Pte Ltd  
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## 2. Hazards identification:

**Classification of the substance or mixture**

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



GHS02 flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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



F+; Extremely flammable

R12: Extremely flammable.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Harmful: may cause lung damage if swallowed.

**Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**Label elements**

**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

**Code letter and hazard designation of product:**



F+; Extremely flammable

**Risk phrases:**

- 12 Extremely flammable.  
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:**

- 16 Keep away from sources of ignition - No smoking.  
 23 Do not breathe spray.  
 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
 46 If swallowed, seek medical advice immediately and show this container or label.  
 51 Use only in well-ventilated areas.

**Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.  
 Do not pierce or burn, even after use.  
 Do not spray on a naked flame or any incandescent material.  
 Buildup of explosive mixtures possible without sufficient ventilation.  
 Keep out of the reach of children

**Other hazards****Results of PBT and vPvB assessment**

**PBT:** Not applicable.


















**vPvB:** Not applicable.

### 3. Composition/information on ingredients

**Chemical characterization**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 75-28-5	isobutane	 F+; R12	40%
EINECS: 200-857-2	 Flam. Gas 1, H220;	 Press. Gas, H280	
CAS: 74-98-6	propane	 F+ R12	40%
EINECS: 200-827-9	 Flam. Gas 1, H220;	 Press. Gas, H280	
CAS: 64742-49-0	Naphtha (petroleum),	hydrotreated light	15%
EINECS: 265-151-9	 Xn R65;	 Xi R38;	 F R11;
		 N R51/53; R67	
Reg.nr.: 01-2119475514-35-xxxx`	 Flam. Liq. 2, H225;	 Asp. Tox. 1, H304;	 Aquatic
	Chronic 2, H411;	 Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 106-97-8	butane	 F+ R12	5%
EINECS: 203-448-7	 Flam. Gas 1, H220;	 Press. Gas, H280	

**Additional information:**

For the wording of the listed risk phrases refer to section 16.

## 4. First Aid Measures:

### Description of first aid measures

#### General information:

- Take affected persons out into the fresh air.
- Do not leave affected persons unattended.

- After inhalation** : In case of unconsciousness place patient stably in side position for transportation.
- After skin contact** : Immediately wash with water and soap and rinse thoroughly.
- After eye contact** : Rinse opened eye for several minutes under running water.
- After swallowing** : Do not induce vomiting; call for medical help immediately.

## 5. Fire Fighting measures:

### Extinguishing media

#### Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**Special hazards arising from the substance or mixture** Risk of bursting in case of fire heat

#### Advice for firefighters

**Protective equipment** : Do not inhale explosion gases or combustion gases.

**Additional information** : Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations

## 6. Accidental release measures:

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

#### Methods and material for containment and cleaning up:

Ensure adequate ventilation.  
Let volatiles evaporate - stem up residues mechanically

#### 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.

## 7. Handling and storage:

### Handling:

#### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with skin and eyes.

#### Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

#### Pressurized container:

protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights.  
Do not pierce or burn, even after use.

#### Conditions for safe storage, including any incompatibilities

#### Storage:

#### Requirements to be met by storerooms and receptacles:

Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Protect from heat and direct sunlight.

## 8. Explosion Control/Personal Protection

**Additional information about design of technical facilities:** No further data; see item 7.

### Control parameters

**Ingredients with limit values that require monitoring at the workplace:**

#### 106-97-8 butane

WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm  
Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm  
Carc (if more than 0.1% of buta-1.3-diene)

**Additional information:** The lists valid during the making were used as basis.

### Exposure controls

**Personal protective equipment:**

**General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.

### Respiratory protection:

- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure
- Use self-contained respiratory protective device.
- Use suitable respiratory protective device in case of insufficient ventilation.

**Recommended filter device for short term use:** Filter AX

**Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

### Material of gloves

Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.45$  mm

### Penetration time of glove material

$\geq 240$  min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### Eye protection:



Tightly sealed goggles

**Body protection:** Protective work clothing

## 9. Physical & Chemical properties

Information on basic physical and chemical properties

### General Information

**Appearance:** Form: Aerosol                      Colour: Colourless                      Odour: Petrol-like

### Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
· Flash point:	Not applicable, as aerosol.
· Ignition temperature:	$>200^{\circ}\text{C}$
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Density at $20^{\circ}\text{C}$ :	$0.58012\text{ g/cm}^3$
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Organic solvents:	93.5 %

## 10. Stability & Reactivity

### Reactivity

- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Hazardous decomposition products: Aldehyde  
Carbon monoxide and carbon dioxide

## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values relevant for classification:

#### 64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rab)
Inhalative	LC50/4 h	>5 mg/l (rat)

#### Primary irritant effect:

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:** Vapours have narcotic effect.

## 12. Ecological Information

### Toxicity

**Aquatic toxicity** : No further relevant information available.

### Ecotoxicological effects:

**Remark** : Harmful to fish

### Additional ecological information:

#### General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

### Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

## 13. Disposal considerations

### Waste treatment methods

#### Recommendation

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

### European waste catalogue

16 05 04 gases in pressure containers (including halons) containing dangerous substances

15 01 04 metallic packaging

### Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations.

## 14. Transportation Instructions:

### Land transport ADR/RID (cross-border)



- **ADR/RID class** : 2 5F Gases.
- **Danger code (Kemler)** : 23
- **UN-Number** : 1950
- **Packaging group** : -
- **Hazard label** : 2.1
- **UN proper shipping name** : 1950 AEROSOLS
- **Limited quantities (LQ)** : LQ2
- **Transport category** : 2
- **Tunnel restriction code** : B1D

· **Maritime transport IMDG:**



- **IMDG Class** : 2.1
- **UN Number** : 1950
- **Label** : 2.1
- **Packaging group** : -
- **EMS Number** : F-D,S-U
- **Marine pollutant** : No
- **Proper shipping name** : AEROSOLS

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

- **UN "Model Regulation"** : UN1950, AEROSOLS, 2.1
- **Special precautions for user Warning:** Gases.

## 15. Regulation information:

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

## 16. Other Information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

- R11 Highly flammable.
- R12 Extremely flammable.
- R38 Irritating to skin.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R67 Vapours may cause drowsiness and dizziness.

**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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

\* Data compared to the previous version altered.