



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

Printing Date 25.03.2022 - Revision 25.03.2022

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

### PRODUCT DETAIL

**Trade Name:** OWS 513 Adhering Chain Lube

**Article Number:** 513

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

**Manufacturer / Supplier:**

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

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



F+; Extremely flammable

R12: Extremely flammable.

R52/53-66-67: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

- **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.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurized container.

Has a narcotizing effect.

- **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.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

- **Safety phrases:**

23 Do not breathe vapour/spray.

- 24/25 Avoid contact with skin and eyes.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 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. Keep away from sources of ignition – No smoking!

Without sufficient ventilation formation of explosive mixtures may be possible.

Keep out of the reach of children

· **Classification in accordance with Directive 75/324/EEC:** Extremely flammable

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.


























· **vPvB:** Not applicable.

### 3. Composition/Ingredients:

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

CAS: 106-97-8	butane	 F+ R12	52%
EINECS: 203-448-7	 Flam. Gas 1, H220;	 Press. Gas, H280	
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light		30%
EINECS: 265-151-9	 Xn R65;  Xi R38;  F R11;  N R51/53 R67		
	 Flam. Liq. 1, H224;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;		
	 Skin Irrit. 2, H315; STOT SE 3, H336		
CAS: 74-98-6	propane	 F+ R12	12%
EINECS: 200-827-9	 Flam. Gas 1, H220;	 Press. Gas, H280	
CAS: 75-28-5	isobutane	 F+ R12	4%
EINECS: 200-857-2	 Flam. Gas 1, H220;	 Press. Gas, H280	
CAS: 110-54-3	n-hexane		2%
EINECS: 203-777-6	 Xn R48/20-62-65;  Xi R38;  F R11;  N R51/53 R67		
	 Flam. Liq. 2, H225;  Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304;		
	 Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; STOT SE 3, H336		

· **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:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Wash with water and soap

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:**

If product is swallowed (normally not possible) DO NOT induce vomiting. DANGER OF ASPIRATION.

Search for medical help..

- **Information for 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>, 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:** Wear fully protective suit.

- **Additional information** Cool endangered receptacles with water spray.

## 6. Accidental release measures:

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Product forms slippery surface when combined with water.

Particular danger of slipping on leaked/spilled product.

Avoid contact with skin / eyes and inhalation.

Keep sources of ignition (flames, sparks, etc.) away. Do not use engines near by (potential source of ignition)

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

- **Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- **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. Storage and Handling:

- **Handling:**

- **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

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

Keep ignition sources away - Do not smoke.

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.

Do not spray onto a naked flame or any incandescent material.

- **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:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **Recommended storage temperature:** 15 - 35°C, max. 50°C
- **Specific end use(s)** No further relevant information available.

## 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 (Great Britain)	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)

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

TWA (8H) (Great Britain)	Long-term value: 1000 mg/m <sup>3</sup> , 250 ppm
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- **110-54-3 n-hexane**

WEL (Great Britain)	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm
IOELV (EU)	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm

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

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**

- **Material of gloves** If contamination is possible, use gloves made of nit rile according EN 374.

- **Penetration time of glove material** > 480 min / 0,4 mm thickness.

- **Eye protection:** Safety glasses in case of spitting.

## 9. Physical & Chemical Characteristics:

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

- **General Information**

- **Appearance:**

<b>Form:</b>	Aerosol
<b>Colour:</b>	Light brown
<b>Odour:</b>	Mineral-oil-like
<b>Odour threshold:</b>	Not determined.

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

- **Change in condition**

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

- **Boiling point/Boiling range:** -44°C  
value concerns to propellant

- **Flash point:** Not applicable, as aerosol.

- **Ignition temperature:** 250°C

- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Risk of bursting at temperatures > 50°C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air.
- **Explosion limits:**
  - Lower:** 0.8 Vol %
  - Upper:** 10.9 Vol %
  - Pressure (20°C)** 3-5 bar
- **Density at 20°C:** ca. 0.616 g/cm<sup>3</sup>
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not applicable.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Segregation coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 16.2 %
  - Other information:** No further relevant information available.
- Additional information** Vapors are heavier than air.

## 10. Stability & Reactivity Data:

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Risk of bursting at temperatures >50°C.
- **Possibility of hazardous reactions**  
By use or incidental release the formation of explosive vapour / air mixtures is possible.
- **Conditions to avoid** Temperatures >50°C
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.
- **Additional information:** Stable for a storage time of min. 24 months

## 11. Toxicological Information:

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**  
**64742-49-0 Naphtha (petroleum), hydrotreated light**

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 20 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** low irritant - no duty to declare
- **on the eye:** low
- **Sensitization:** No sensitizing effects known.

## 12. Ecological Information:

- **Toxicity**

- **Aquatic toxicity:**

64742-49-0 Naphtha (petroleum), hydro treated light

LC 50 / 96 h      2.5 mg / l (Flathead Minnow / Elritze)

- **Persistence and degradability** No further relevant information available.

- **Behaviour in environmental systems:**

- **Bio accumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Ecological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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

## 13. Disposal Instructions:

- **Waste treatment methods**

- **Recommendation**

empty cans: material recycling

filled cans: remove in accordance with local regulations

- **European waste catalogue**

16 00 00      WASTES NOT OTHERWISE SPECIFIED IN THE LIST

16 05 00      gases in pressure containers and discarded chemicals

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

- **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):** -

- **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** D

- **Remarks:** Transportation as "LIMITED QUANTITIES" (LQ2) according 3.4 ADR possible. Sole marking: Sign for "Limited Quantities" (rhombus with two black edges) Entry in the transportation document: Transportation according chapter 3.4 ADR

- **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

- **Special precautions for user** Warning: Gases.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

## 15. Regulation Instructions:

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

- **Safety phrases:**

- 23 Do not breathe vapour/spray.
- 24/25 Avoid contact with skin and eyes.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 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. Keep away from sources of ignition - No smoking!

Without sufficient ventilation formation of explosive mixtures may be possible.

Keep out of the reach of children

- **Classification in accordance with Directive 75/324/EEC:** Extremely flammable

- **National regulations:**

- **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

**Class** Share in %  
≤2.5

· **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.

H224 Extremely flammable liquid and vapour.

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.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

R11 Highly flammable.

R12 Extremely flammable.

R38 Irritating to skin.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62 Possible risk of impaired fertility.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

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