

Safety Data Sheet

according to 1907/2006/EC, Article 31







Printing date 03.03.2009

Revision: 03.03.2009

1 Identification of the substance/preparation and of the company/undertaking

- Product details
- Trade name: **Silicon Spray (AE)**
- Article number: PW.10.08
- Application of the substance / the preparation: Lubricant
- Manufacturer/Supplier: Putoline Oil
Dollegoorweg 15
NL-7602 EC ALMELO
Tel.: +31 (0)546 818165
- Further information obtainable from: Product safety department - vib@putoline.com
- Information in case of emergency: +31 (0)546 818165 (9 AM to 4 PM, Monday to Friday)

* 2 Hazards identification

- Hazard description:    Xi Irritant
F+ Extremely flammable
N Dangerous for the 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.
Warning! Pressurized container.
Has a narcotizing effect.
R 12 Extremely flammable.
R 38 Irritating to skin.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 67 Vapours may cause drowsiness and dizziness.
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.
Buildup of explosive mixtures possible without sufficient ventilation.
- Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- GHS label elements
 -  **Danger**
2.3/1 - Extremely flammable aerosol.
 -  **Warning**
3.2/2 - Causes skin irritation.
3.8/3 - May cause drowsiness or dizziness.
 - 
- Prevention: 4.1/2 - Toxic to aquatic life with long lasting effects.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.03.2009

Revision: 03.03.2009

Trade name: Silicon Spray (AE)

(Contd. of page 1)

- Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
- **Response:** IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment (see label).
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Collect spillage.
 - **Storage:** Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
 - **Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

* 3 Composition/information on ingredients

- **Description:** Active substance with propellant

· Dangerous components:		
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light Carc. Cat. 2; ☒ Xn, ☒ Xi, ☒ F, ☒ N; R 11-38-51/53-65-67 Danger: ☒ 2.6/2; ☒ 3.10/1 Warning: ☒ 3.2/2, 3.8/3 ☒ 4.1.C/2	25-50%
CAS: 106-97-8 EINECS: 203-448-7	butane ☒ F+; R 12 Danger: ☒ 2.2/1 Warning: ☒ 2.5/L	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane ☒ F+; R 12 Danger: ☒ 2.2/1 Warning: ☒ 2.5/L	10-25%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **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

- **Suitable extinguishing agents:** CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:** Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.03.2009

Revision: 03.03.2009

Trade name: Silicon Spray (AE)


(Contd. of page 2)

- **Measures for cleaning/collecting:** Ensure adequate ventilation.
Remove from the water surface (e.g. skim or suck off).
- **Additional information:** 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:**
- **Information 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.
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.
Do not spray onto a naked flame or any incandescent material.
- **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:** Keep container tightly sealed.
Do not seal receptacle gas tight.
Protect from heat and direct sunlight.

* 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
 - **Ingredients 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.
 - **Additional information:** The lists valid during the making were used as basis.
 - **Personal protective equipment:**
 - **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
 - **Respiratory protection:** Filter AX
Use suitable respiratory protective device in case of insufficient ventilation.
 - **Protection of hands:** Solvent resistant gloves
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- 
Protective gloves
- **Material of gloves** Oil resistant gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.03.2009

Revision: 03.03.2009

Trade name: Silicon Spray (AE)

(Contd. of page 3)

· Penetration time of glove material

The exact break trough 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 and chemical properties

· General Information	
Form:	Aerosol
Colour:	According to product specification
Odour:	Characteristic
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-44°C
· Flash point:	-97°C
· Ignition temperature:	215°C
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	10.9 Vol %
· Vapour pressure at 20°C:	8300 hPa
· Density at 20°C:	0.659 g/cm ³
· Solubility in / Miscibility with water:	
	Not miscible or difficult to mix.
· Solvent content:	
Organic solvents:	88.0 %
· Solids content:	12.0 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions: Reacts with strong oxidizing agents.
- Dangerous decomposition products: No dangerous decomposition products known.

* 11 Toxicological information

· Acute toxicity:

· LD/LC50 values relevant for classification:

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

Oral	LD50	4300-6000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rabbit)
Inhalative	LC50/4 h	>60 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:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

(Contd. on page 5)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.03.2009

Revision: 03.03.2009

Trade name: Silicon Spray (AE)

Irritant

(Contd. of page 4)

* 12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is difficultly biodegradable.
- **Ecotoxic effects:**

· Acquatic toxicity:	
64742-49-0 Naphtha (petroleum), hydrotreated light	
L(E)C50	35-37 mg/l (fish)

- **Remark:** Toxic for fish
- **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.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations

- **Product:**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

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



- **ADR/RID class:** 2 5F Gases.
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label** 2.1
- **Description of goods:** 1950 AEROSOLS
- **Limited quantities (LQ)** LQ2
- **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

(Contd. on page 6)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.03.2009

Revision: 03.03.2009

Trade name: Silicon Spray (AE)

(Contd. of page 5)

· 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

15 Regulatory information

· 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:


Xi Irritant
F+ Extremely flammable
N Dangerous for the environment

· Risk phrases:

- 12 Extremely flammable.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 2 Keep out of the reach of children.
- 23 Do not breathe aerosol.
- 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. Keep away from sources of ignition - No smoking. Buildup of explosive mixtures possible without sufficient ventilation.

· National regulations:
· Waterhazard class:

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

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 R-phrases

- 11 Highly flammable.
- 12 Extremely flammable.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

· Department issuing MSDS:

Product safety department.

· Contact:

Product safety department

· 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

(Contd. on page 7)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 03.03.2009

Revision: 03.03.2009

Trade name: Silicon Spray (AE)

(Contd. of page 6)

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
67/548/EEC - Dangerous Substances Directive
99/45/EEC - Dangerous Preparations Directive

· Sources

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