

Material Safety Data Sheet According to 91/155 EC

Printing date 14.10.2003

Reviewed on 14.10.2003





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

- **Product details**
- **Trade name:** SYNTHESO W Spray
- **Article number:** 081034
- **Application of the substance / the preparation** lubricating spray
- **Manufacturer/Supplier:**
 KLÜBER LUBRICATION MÜNCHEN KG
 Geisenhausenerstrasse 7
 D-81379 München
 Tel.: 0049 (0) 897876-0
 Fax: 0049 (0) 897876-333
 Notfallauskunft: 0049 (0) 897876-700
- **Further information obtainable from:** Material Compliance Management

2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Active agent with propellant and solvent.

· **Dangerous components:**

CAS: 106-97-8	butane	50-100%
EINECS: 203-448-7	 F+; R 12	
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light (60/95)	10-25%
EINECS: 265-151-9	 Xn,  F,  N; R 11-38-51/53-65-67	

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

3 Hazards identification

- **Hazard description:**



F+ Extremely flammable

- **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.

R 12 Extremely flammable.

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

R 67 Vapours may cause drowsiness and dizziness.

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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.

Keep out of the reach of children

· **Classification system:**

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

4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash off with soap and plenty of water.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Keep away from ignition sources.
- **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Pick up mechanically.
Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Fumes can combine with air to form an explosive mixture.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
- **Further information about storage conditions:**
Protect from heat and direct sunlight.

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Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

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:**

106-97-8 butane

OES	Short-term value: 1810 mg/m ³ , 750 ppm
	Long-term value: 1450 mg/m ³ , 600 ppm

74-98-6 propane

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

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

Avoid close or long term contact with the skin.

Be sure to clean skin thoroughly after work and before breaks.

- **Respiratory protection:** Not required.

- **Protection of hands:** Solvent resistant gloves

- **Material of 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.

- **Penetration time of glove material**

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

- **Eye protection:** Not required.

9 Physical and chemical properties

- **General Information**

Form:	Aerosol
Colour:	Whitish
Odour:	Product specific

- **Change in condition**

Boiling point/Boiling range: > 65°C

- **Flash point:** < -20°C

- **Ignition temperature:** 260°C

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

Lower: 1.0 Vol %

Upper: 7.3 Vol %

- **Vapour pressure at 20°C:** 190 hPa

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- **Density at 15°C:** ~0.7 g/cm³
- **Solubility in / Miscibility with water:** Insoluble.
- **Additional information:** Values refer to the solvent.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Dangerous reactions**
Danger of receptacles bursting because of high vapour pressure when heated.
- **Dangerous decomposition products:** Carbon monoxide

11 Toxicological information

- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:** The product can be mechanically separated.
- **General notes:**
Harmful to aquatic organisms
Do not allow product to reach ground water, water course or sewage system.
The declaration of the ecology refers to the active agent.

13 Disposal considerations

- **Product:**
- **Recommendation** Can be incinerated in accordance with local and national regulations.
- **Waste disposal key:**
For this product no waste disposal key according the European Waste Catalogue (EWC) can be determined, as only the purpose of application defined by the user enables an allocation. The waste code number has to be determined in accordance with the local waste disposer.
- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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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

- 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

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:



F+ Extremely flammable

- Risk phrases:

12 Extremely flammable.

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

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67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

9 Keep container in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe fumes/aerosol.

51 Use only in well-ventilated areas.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· 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.

Keep out of the reach of children

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: Material Compliance Management**· Contact:** Tel.: +49 (0) 897876-564

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