

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.05.2010

Revision: 27.04.2009

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

· **Product details**

- **Trade name:** *METAFLUX 70-64 Silicone Spray (NSF-registered)*
- **Application of the substance / the preparation** *Lubricant*

· **Manufacturer/Supplier:**

*Techno Service GmbH
Detmolder Strasse 515
D-33605 Bielefeld
Germany
++49 521 924440
www.metaflux-ts.de*

· **Further information obtainable from:**

*Sales Department
++49 521 92444-0*

· **Information in case of emergency:**

*Central Phone Number
++49 521 924440*

2 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.

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 system:**

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

3 Composition/information on ingredients

· **Chemical characterization**

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

· **Dangerous components:**

<i>CAS: 106-97-8 EINECS: 203-448-7</i>	<i>butane</i>	<i>F+; R 12</i>	<i>50-100%</i>
<i>CAS: 74-98-6 EINECS: 200-827-9</i>	<i>propane</i>	<i>F+; R 12</i>	<i>10-25%</i>
<i>CAS: 75-28-5 EINECS: 200-857-2</i>	<i>isobutane</i>	<i>F+; R 12</i>	<i>2.5-10%</i>

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

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4 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:** Generally the product does not irritate the skin.

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

- **After swallowing:** If symptoms persist consult 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

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

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

6 Accidental release measures

- **Person-related safety precautions:**

- Wear protective equipment. Keep unprotected persons away.

- Particular danger of slipping on leaked/spilled product.

- **Measures for environmental protection:** Do not allow to penetrate the ground/soil.

- **Measures for cleaning/collecting:**

- Ensure adequate ventilation.

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

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.

- 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:**

- Store in cool, dry conditions in well sealed receptacles.

- Protect from heat and direct sunlight.

- **Recommended storage temperature:** 15 - 35°C, max. 50°C

8 Exposure controls/personal protection

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

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

106-97-8 butane

WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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- **Additional information:** The lists valid during the making were used as basis.
- **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:** Not necessary if room is well-ventilated.
- **Protection of hands:**
- **Material of gloves:** If contamination is possible, use gloves made of nitrile according EN 374
- **Penetration time of glove material** > 480 min / 0,4 mm thickness

9 Physical and chemical properties

· **General Information**

Form:	Aerosol
Colour:	Colourless
Odour:	Recognizable

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: -44°C

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

· **Ignition temperature:** 365°C

· **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:	1.5 Vol %
Upper:	10.9 Vol %
Pressure (20°C)	3,5 - 4,5 bar

· **Density at 20°C:** 0.625 g/cm³

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Solvent content:**

Organic solvents: 0.0 %

Solids content: 20.8 %

· **Additional information** Vapors are heavier than air.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Risk of bursting at temperatures >50°C.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

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· **Additional information:** Stable for a storage time of min. 24 months

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **Additional ecological information:**
- **General notes:** Generally not hazardous for water

13 Disposal considerations

- **Product:**
- **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 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**
- **Transport category** 2
- **Tunnel restriction code** D
- **Remarks:** Transportation as "LIMITED QUANTITIES" (LQ2) according 3.4 ADR possible.
Sole marking: UN 1950 (rhombe)
Entry in the transportation document: Transportation according chapter 3.4 ADR

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· **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.

· **Safety phrases:**

23 Do not breathe vapour/spray.

35 This material and its container must be disposed of in a safe way.

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

· **National regulations:**· **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

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Employment restrictions concerning pregnant and lactating women must be observed.

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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**

12 Extremely flammable.

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