

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

RUKO Schneidspray Art.-Nr.: 101010, 101025, 101036

Print date: 10.06.2015

Product code: RUK3400

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

RUKO Schneidspray Art.-Nr.: 101010, 101025, 101036

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.3. Details of the supplier of the safety data sheet**

Company name:	RUKO GmbH	
	Präzisionswerkzeuge / Precision tools	
Street:	Robert-Bosch-Strasse 7-9	
Place:	D-71088 Holzgerlingen	
Post-office box:	1216	
	D Holzgerlingen	
Telephone:	+49 (0)7031 6800 0	Telefax: +49 (0)7031 6800 21
e-mail:	info@ruko.de	
Contact person:	Lukas Striz	Telephone: +49 (0) 7031 / 6800 742
e-mail:	Lukas.Striz@ruko.de	
Internet:	www.ruko.de	

1.4. Emergency telephone number:

Giftnotruf Berlin: +49 (0) 30 / 30686 790

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: F+ - Extremely flammable

R phrases:

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 into flames or ignition sources. Keep away from sources of ignition - No smoking.

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Keep out of the reach of children.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

2.2. Label elements

Signal word:	Danger
Pictograms:	GHS02

**Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Precautionary statements

P102	Keep out of reach of children.
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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P410	Protect from sunlight.
P412	Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to hazardous waste.

Special labelling of certain mixtures

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
203-448-7	butane	
106-97-8	F+ - Extremely flammable R12	25-50%
601-004-00-0	Flam. Gas 1; H220	
200-827-9	propane	
74-98-6	F+ - Extremely flammable R12	3 - <10%
601-003-00-5	Flam. Gas 1; H220	
200-857-2	isobutane	
75-28-5	F+ - Extremely flammable R12	1 - <2,5%
601-004-00-0	Flam. Gas 1; H220	
	Zinkdialkyldithiophosphat	
4259-15-8	N - Dangerous for the environment R51-53	1 - <2,5%

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Move victim to fresh air. Put victim at rest and keep warm. Do not leave victim unattended.

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Let water be swallowed in little sips (dilution effect).
Do not induce vomiting. Consult physician immediately.

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SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂). Extinguishing powder. Atomized water.
Use alcohol resistant foam. for extinction.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Heating causes rise in pressure with risk of bursting.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. Keep away from unprotected people. Keep upwind. Provide adequate ventilation. High slip hazard because of leaking or spilled product. Remove all sources of ignition.

Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

6.3. Methods and material for containment and cleaning up

Provide adequate ventilation. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

Handle and open container with care.

Advice on protection against fire and explosion

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 into flames or ignition sources.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in a cool, well-ventilated place.

Official regulations for the storage of compressed gas containers are to be observed
storage temperature: 15 - 35 °C, Do not store at temperatures over: 50 °C

Advice on storage compatibility

Do not store with strong oxidizing agents.

Further information on storage conditions

Store in a cool dry place. Keep/Store only in original container.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

8.2. Exposure controls**Protective and hygiene measures**

Wash hands before breaks and at the end of work.

Eye/face protection

Use glasses or face shield if there is a risk of splashing.

Hand protection

Tested protective gloves are to be worn: Nitrile. DIN EN 374

Thickness of glove material: > 480 min / 0,4mm

Respiratory protection

Do not breathe gas/fumes/vapour/spray.

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Aerosol
Colour:	light yellow
Odour:	mineral oil.

Test method

pH-Value:	not determined
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Changes in the physical state

Initial boiling point and boiling range:	-44 °C
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Flash point:	not applicable
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Explosive properties

In case of warming: >50°C Danger of bursting container.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Lower explosion limits:	1,5 vol. %
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Upper explosion limits:	8,5 vol. %
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Ignition temperature:	365 °C
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Vapour pressure: (at 20 °C)	2000-5000 hPa
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Density (at 20 °C):	0,708 g/cm ³
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Viscosity / dynamic:	not determined
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Viscosity / kinematic:	not determined
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Vapour density:	not determined
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Evaporation rate:	not applicable
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Solvent content:	0%
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9.2. Other information

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Vapours are heavier than air and will spread at floor level.

SECTION 10: Stability and reactivity**10.3. Possibility of hazardous reactions**

In use, may form flammable/explosive vapour-air mixture.

10.4. Conditions to avoid

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Danger of bursting container.

Keep away from sources of ignition - No smoking.

10.6. Hazardous decomposition products

Hazardous decomposition products: No data available

Further information

storage stability: 2 Years

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Irritant effect on the skin: Not an irritant.

Irritant effect on the eye: Not an irritant.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
106-97-8	butane				
	inhalative (4 h) gas	LC50	273000 ppm	Rat	GESTIS

Sensitising effects

no danger of sensitization.

SECTION 12: Ecological information**12.1. Toxicity**

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
74-98-6	propane	2,36
75-28-5	isobutane	2,8

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

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13.1. Waste treatment methods**Waste disposal number of waste from residues/unused products**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: UN1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Transport category: 2
Tunnel restriction code: D

Other applicable information (land transport)
E0

Inland waterways transport (ADN)

14.1. UN number: UN1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L

Other applicable information (inland waterways transport)
E0

Marine transport (IMDG)

14.1. UN number: UN1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2, see SP63

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Special Provisions: 63, 190, 277, 327, 344, 959
Limited quantity: See SP277
EmS: F-D, S-U

Other applicable information (marine transport)

E0

Air transport (ICAO)

14.1. UN number: UN1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
Hazard label: 2.1



Special Provisions: A145 A167 A803
Limited quantity Passenger: 30 kg G
IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

Other applicable information (air transport)

E0

: Y203

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 39,9% (282,5g/l) = 0,113 kg/400ml

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D): 1 - slightly water contaminating

Additional information

Commodity code: 3403 1990

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Relevant R-phrases (Number and full text)**

- 12 Extremely flammable.
51 Toxic to aquatic organisms.
53 May cause long-term adverse effects in the aquatic environment.

Relevant H- and EUH-phrases (Number and full text)

- H220 Extremely flammable gas.
H222 Extremely flammable aerosol.



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H229

Pressurised container: May burst if heated.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)