

**Safety Data Sheet**

according to UK REACH Regulation

**RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036**

Revision date: 09.03.2022

Product code: RUK3400

Page 1 of 11

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

RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036

**Further trade names**

Art.-Nr.: 101010, 101025, 101036

UFI: NWD9-10KA-100H-WC7P

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Cutting oil

**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:	H. Sladek	Telephone: +49 (0) 7031 / 6800 33
e-mail:	info@ruko.de	
Internet:	www.ruko.de	

**1.4. Emergency telephone number:**

Emergency telephone number (24h) + 44 1235 239670 (en)

**Further Information**

Reserved for industrial and professional use.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Aerosol 1; H222-H229

Full text of hazard statements: see SECTION 16.

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 naked flames or any incandescent material. Keep away from sources of ignition - No smoking.

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.  
@1501.B015712**2.2. Label elements****GB CLP Regulation****Signal word:** Danger**Pictograms:****Hazard statements**

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

**Safety Data Sheet**

according to UK REACH Regulation

**RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036**

Revision date: 09.03.2022

Product code: RUK3400

Page 2 of 11

**Precautionary statements**

- 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+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**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.

**Additional advice on labelling**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**2.3. Other hazards**

The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
106-97-8	butane			25-50%
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1; H220			
74-98-6	propane			3-10%
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1; H220			
75-28-5	isobutane			1-2,5%
	200-857-2	601-004-00-0	01-2119485395-27	
	Flam. Gas 1; H220			
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified			< 0.1 %
	265-169-7		01-2119471299-27	
64742-55-8	Destillate (Erdöl) mit Wasserstoff behandelte leichte paraffinhaltige			< 0.1 %
	265-158-7		01-2119487077-29	
	Asp. Tox. 1; H304			

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
106-97-8	203-448-7	butane	25-50% %
	inhalation: LC50 = 273000 ppm (gases)		
64742-65-0	265-169-7	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified	< 0.1 %
	inhalation: LC50 = 2,18 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg		
64742-55-8	265-158-7	Destillate (Erdöl) mit Wasserstoff behandelte leichte paraffinhaltige	< 0.1 %
	inhalation: LC50 = 3900 mg/l (dusts or mists); dermal: LD50 = > 3000 mg/kg; oral: LD50 = > 5000 mg/kg		



## Safety Data Sheet

according to UK REACH Regulation

### RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036

Revision date: 09.03.2022

Product code: RUK3400

Page 3 of 11

#### 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 affected person unattended.

###### **After inhalation**

Provide fresh air.

###### **After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with: Water and soap.

###### **After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. 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**

Rinse mouth immediately and drink plenty of water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Seek medical advice immediately.

##### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

##### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). 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

Extremely flammable aerosol. Vapours can form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

##### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

###### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

###### **General advice**

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.

###### **For emergency responders**

Wear personal protection equipment.

Keep away from unprotected people. Keep upwind.

**Safety Data Sheet**

according to UK REACH Regulation

**RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036**

Revision date: 09.03.2022

Product code: RUK3400

Page 4 of 11

**6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Handle and open container with care.

**Advice on protection against fire and explosion**

Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

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 naked flames or any incandescent material.

**Advice on general occupational hygiene**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Wash hands before breaks and after work.

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

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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

**Hints on joint storage**

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances. Do not store with strong oxidizing agents.

**Further information on storage conditions**

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

**7.3. Specific end use(s)**

Observe technical data sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

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

**Safety Data Sheet**

according to UK REACH Regulation

**RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036**

Revision date: 09.03.2022

Product code: RUK3400

Page 5 of 11

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified			
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	5,58 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day

**PNEC values**

CAS No	Substance	Value
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg

**8.2. Exposure controls****Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye/face protection. Use glasses or face shield if there is a risk of splashing.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves are to be worn: Nitrile. EN ISO 374  
Thickness of glove material: > 480 min / 0,4mm

**Skin protection**

Flame-retardant protective clothing. Wear anti-static footwear and clothing

**Respiratory protection**

In case of inadequate ventilation wear 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: liquid  
Colour: light yellow  
Odour: mineral oil.

**Changes in the physical state**

Melting point/freezing point: not determined  
Boiling point or initial boiling point and boiling range: -44 °C  
Flash point: not applicable

**Flammability**

**Safety Data Sheet**

according to UK REACH Regulation

**RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036**

Revision date: 09.03.2022

Product code: RUK3400

Page 6 of 11

Solid/liquid: not applicable  
Gas: not applicable

**Explosive properties**

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. %  
Upper explosion limits: 8,5 vol. %  
Auto-ignition temperature: 365 °C

**Self-ignition temperature**

Solid: not applicable  
Gas: not applicable

Decomposition temperature: not determined

pH-Value: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water: not determined

Vapour pressure:  
(at 20 °C) 2000-5000 hPa

Density (at 20 °C): 0,708 g/cm<sup>3</sup>

Relative vapour density: not determined

**9.2. Other information****Information with regard to physical hazard classes****Oxidizing properties**

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 naked flames or any incandescent material. Danger of bursting container. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Not oxidising.

**Other safety characteristics**

Solvent content: 0%

Solid content: not determined

Evaporation rate: not applicable

**Further Information**

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

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Extremely flammable aerosol.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50

**Safety Data Sheet**

according to UK REACH Regulation

**RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036**

Revision date: 09.03.2022

Product code: RUK3400

Page 7 of 11

°C. Do not pierce or burn, even after use. Danger of bursting container.  
Keep away from sources of ignition - No smoking.

**10.5. Incompatible materials**

Oxidizing agents.

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Pyrolysis products, toxic.

**Further information**

storage stability: 2 Years

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

Irritant effect on the skin: mild irritant.

Irritant effect on the eye: mild irritant.

Identification is not obligatory. Please observe the information on the safety data sheet at all times.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
106-97-8	butane				
	inhalation (4 h) gas	LC50 ppm	273000	Rat	GESTIS
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified				
	oral	LD50 mg/kg	> 5000	Rat	ECHA OECD Guideline 401
	dermal	LD50 mg/kg	> 5000	Rabbit	ECHA OECD Guideline 402
	inhalation (4 h) vapour	LC50	2,18 mg/l	Rat	ECHA OECD Guideline 403
64742-55-8	Destillate (Erdöl) mit Wasserstoff behandelte leichte paraffinhaltige				
	oral	LD50 mg/kg	> 5000	Rat	
	dermal	LD50 mg/kg	> 3000	Rabit	
	inhalation (4 h) dust/mist	LC50	3900 mg/l	Rat	

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**Based on available data, the classification criteria are not met.  
no danger of sensitization.**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards**

**Safety Data Sheet**

according to UK REACH Regulation

**RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036**

Revision date: 09.03.2022

Product code: RUK3400

Page 8 of 11

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Pimephales promelas	ECHA	OECD 203
	Acute algae toxicity	ErC50 100 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EC50 >10000 mg/l	48 h	Daphnia magna	ECHA	OECD 202
	Algae toxicity	NOEC > 100 mg/l		Pseudokirchneriella subcapitata	ECHA	OECD 201
	Crustacea toxicity	NOEC > 1000 mg/l	21 d	Daphnia Magna	ECHA	OECD 211

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential****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**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

Do not allow to enter into surface water or drains.  
Do not allow to enter into soil/subsoil.

**Further information**

Avoid release to the environment.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.  
still filled cans: Problem case collection  
emptied aerosol cans: collecting recyclables

**List of Wastes Code - residues/unused products**



**Safety Data Sheet**

according to UK REACH Regulation

**RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036**

Revision date: 09.03.2022

Product code: RUK3400

Page 9 of 11

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

**List of Wastes Code - used product**

1605

**List of Wastes Code - 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

**Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled.

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

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0  
Transport category: 2  
Tunnel restriction code: D

**Other applicable information (land transport)**

Special provisions: 190 625  
E0  
Transport category: 3  
Tunnel restriction code: E  
Special provisions: 190 - 327 - 625  
Transport category: 2  
Tunnel restriction code: D

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1950

**Safety Data Sheet**

according to UK REACH Regulation

**RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036**

Revision date: 09.03.2022

Product code: RUK3400

Page 10 of 11

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

Marine pollutant: •  
Special Provisions: 63, 190, 277, 327, 344, 959  
Limited quantity: See SP277  
Excepted quantity: E0  
EmS: F-D, S-U

**Other applicable information (marine transport)**

Special provisions: 63, 190, 277, 327, 959

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS, flammable  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



Special Provisions: A145 A167 A802  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y203  
Excepted quantity: E0  
IATA-packing instructions - Passenger: Forbidden  
IATA-max. quantity - Passenger: Forbidden  
IATA-packing instructions - Cargo: 203  
IATA-max. quantity - Cargo: 150 kg

**Other applicable information (air transport)**

E0

: -

150 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning: Flammable gases.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40, Entry 75

2010/75/EU (VOC): 62,5 % (442,5 g/l)

2004/42/EC (VOC): 62,5 % (442,5 g/l)

**Safety Data Sheet**

according to UK REACH Regulation

**RUKO Cutting Spray Art.-Nr.: 101010, 101025, 101036**

Revision date: 09.03.2022

Product code: RUK3400

Page 11 of 11

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

**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****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,6,7,9,11,12.

AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)

**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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data

**Relevant H and EUH statements (number and full text)**

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H304 May be fatal if swallowed and enters airways.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The information is based on the present level of our knowledge. It does not, however, give assurance 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.)*