

# ! SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Name of product	Anti Friction Coating MoS2 Code-Nr. 115390
<b>1.2. Relevant identified uses of the su</b> <b>Recommended intended purpose(s)</b> Technical Aerosols	bstance or mixture and uses advised against
1.3. Details of the supplier of the safet	ty data sheet
Distributor	WEICON GmbH & Co. KG Königsberger Str. 255,, DE-48157 Münster Phone ++49(0)251 / 9322 - 0, Fax ++49(0)251 / 9322 - 244 E-Mail : msds@weicon.de Internet : www.weicon.de
Advice	Produktsicherheit / Product-Safety-Department Phone ++49(0)251 / 9322 - 0 E-mail (competent person): msds@weicon.de
1.4. Emergency telephone number	
	EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English) TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)
Manufacturer	WEICON GmbH & Co. KG Königsberger Str. 255, DE-48157 Münster
1.4. Emergency telephone number	
	GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h): Tel: ++49 69 222 25285 (Deutsch, Englisch)

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and categories	I Hazard Hazard Statements Classification procedure
Aerosol 1	H222, H229
STOT SE 3	H336
Aquatic Chronic 3	H412
Hazard Statements H222 H229	<b>s</b> Extremely flammable aerosol. Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.



# 2.2. Label elements Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS07

## Signal word Danger

### **Hazard Statements**

H222 H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

# **Precautionary Statements**

P102	Keep out of reach of children.
P210 P211 P251 P261 P271 P273	<ul> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>Do not spray on an open flame or other ignition source.</li> <li>Do not pierce or burn, even after use.</li> <li>Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Avoid release to the environment.</li> </ul>
P304 + P340 P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P403 + P235 P405 P410 + P412	Store in a well-ventilated place. Keep cool. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container to hazardous or special waste collection point.

# Hazardous ingredients for labeling

pentane

# Supplemental Hazard information (EU)

Repeated exposure may cause skin dryness or cracking.

# 2.3. Other hazards

Product has an anesthetic effect.

# Information pertaining to special dangers for human and environment

In extensive use, formation of flammable / explosive vapour-air mixture is possible.

### Results of PBT and vPvB assessment

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



# **SECTION 3: Composition/ information on ingredients**

#### 3.1. Substances

not applicable

### 3.2. Mixtures

#### Description

Mixture of active ingredients with propellant

#### **Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
75-28-5	200-857-2	isobutane	10 - 20	Flam. Gas 1, H220 / Press. Gas
106-97-8	203-448-7	butane	30 - 50	Flam. Gas 1, H220 / Press. Gas
109-66-0	203-692-4	pentane	10 - 20	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / STOT SE 3, H336 / Aquatic Chronic 2, H411
123-86-4	204-658-1	n-butyl acetate	10 - 20	Flam. Liq. 3, H226 / STOT SE 3, H336
64742-82-1	265-185-4	Naphtha (petroleum), hydrotreated heavy (NOTA P)	0,5 - 0,99	Asp. Tox 1, H304 / STOT SE 3, H336 / Flam. Liq. 3, H226 / Aquatic Chronic 2, H411 / , EUH066
74-98-6	200-827-9	propane	10 - 20	Flam. Gas 1, H220 / Press. Gas
REACH				
CAS No	Name			<b>REACH registration number</b>
74-98-6	propane			01-2119486944-21

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

Remove contaminated soaked clothing immediately.

#### In case of inhalation

Remove the casualty into fresh air and keep him immobile. In the event of symptoms refer for medical treatment.

#### In case of skin contact

In case of contact with skin wash off with soap and water. Consult a doctor if skin irritation persists.

#### In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

## In case of ingestion

Seek medical advice.

# 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** No information available.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media Dry powder Carbon dioxide sand



### Unsuitable extinguishing media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Danger of bursting In case of fire formation of dangerous gases possible.

# 5.3. Advice for firefighters

### Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

# Additional information

Cool endangered containers with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Ensure adequate ventilation. Use personal protective clothing. Keep away sources of ignition.

### 6.2. Environmental precautions

Inform pollution control authorities if product gets into the sewerage systems or open waters. Do not discharge into the drains or bodies of water.. Do not discharge into the drains/surface waters/groundwater.

# 6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust). After taking up the material dispose according to regulation.

# Additional Information

Sort out leaky cans and dispose according to regulations.

# 6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

#### **General protective measures**

Avoid contact with eyes and skin Do not inhale gases/vapours/aerosols.

#### Hygiene measures

At work do not eat, drink and smoke. Wash hands before breaks and after work.

# Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking Do not spray on a naked flame or any incandescent material. Pressurized container.



Do not pierce or burn even after use. Vapours can form an explosive mixture with air. Take precautionary measures against static discharges. Avoid effect of heat.

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

Keep in closed original container.

Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.

# Further information on storage conditions

Protect from heat and direct solar radiation. Storage temperature may not exceed 50°C (=122°F). Store container at cool and aired place.

### 7.3. Specific end use(s)

Recommendation(s) for intended use

See section 1.2

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

### Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
106-97-8	Butane	8 hours	1450	600	EH40/2005
		Short-term	1810	750	

#### Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
109-66-0 DNEL-/PNEC- DNEL worker		8 hours	3000	1000	
CAS No	Substance name	Value	Code		Remark
123-86-4	n-butyl acetate	960 mg/m3	DNEL acute inhalative (lo	ocal)	
		960 mg/m3	DNEL acute inhalative (s	ystemic)	
		480 mg/m3	DNEL long-term inhalativ	e (local)	
		480 mg/m3	DNEL long-term inhalativ (systemic)	e	
PNEC					
CAS No	Substance name	Value	Code		Remark
123-86-4	n-butyl acetate	0,018 mg/l	PNEC aquatic, marine wa	ater	
		0,18 mg/l	PNEC aquatic, freshwate	r	
		0,981 mg/kg	PNEC sediment, freshwa	ter	

#### Additional advice

The statutory local and national regulations have to be observed.

#### 8.2. Exposure controls

#### **Respiratory protection**

If ventilation insufficient, wear respiratory protection.

Short-term: filter apparatus, filter AX/P2, otherwise environment-independent breathing apparatus.



#### Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]:: Nitrile rubber; 0,4mm; 480min;60min.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

# Eye protection

tightly fitting goggles

# Other protection measures

protective clothing

## Appropriate engineering controls

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic phys	sical and chemical properties	
Appearance	Colour	Odour
aerosol	grey	characteristic
Odour threshold not determined		

#### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling point	not applicable				
Melting point / Freezing point	not determined				
Flash point	not applicable				Aerosol
Vapourisation rate	not determined				
Flammable (solid)	not applicable				
Flammability (gas)	not determined				
Ignition temperature	285 °C				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	1,2 Vol-%				
Upper explosion limit	10,9 Vol-%				
Vapour pressure	3300 hPa	20 °C			
Relative density	0,85 g/cm3	20 °C			
Vapour density	not determined				



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Printed 02.09.2016

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# Anti Friction Coating MoS2

	Value	Temperature	at	Method	Remark
Solubility in water					No or low immiscibility
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity dynamic	not determined				
Viscosity kinematic	not determined				
<b>Oxidising properties</b> No information available.					
Explosive properties The product is considered nor	n-explosive ; neve	rtheless explosiv	e vapour/air	mixtures can be generate	d.
9.2 Other information					

# 9.2. Other information

No information available.

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No information available.

#### **10.2. Chemical stability** No information available.

#### **10.3. Possibility of hazardous reactions** No information available.

#### 10.4. Conditions to avoid

Keep away from heat. Formation of explosive gas/air mixtures.

#### **10.5. Incompatible materials** No information available.

#### 10.6. Hazardous decomposition products

#### Thermal decomposition

Remark No decomposition if used as directed.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
Skin irritation	non-irritant			
Eye irritation	non-irritant			



	Value/Validation	Species	Method	Remark	
Skin sensitization	non-sensitizing				

#### Additional information

The product is to be handled with the caution usual with chemicals. Other hazardous properties may not be excluded.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No information available.

#### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

No information available.

#### 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Other adverse effects

#### **General regulation**

Toxic to aquatic life, fishes and plankton. Even in the event of low quantities penetration into the underground drinking water is contaminated. Do not allow uncontrolled leakage of product into the environment. Product is not allowed to be discharged into the ground water or aquatic environment. Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

# **SECTION 13: Disposal considerations**

13.1. Waste treatment methods	
Waste code No.	Name of waste
15 01 04	metallic packaging
15 01 10*	packaging containing residues of or contaminated by hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

**Recommendations for the product** Remove in accordance with local official regulations.

#### **Recommendations for packaging**

Dispose of according to the local waste regulations.

#### **General information**

For proper waste disposal a complete emptying of the tin is necessary.



# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2.1	2.1	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	No	No	No

# 14.6. Special precautions for user

Caution: Gases

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable

Land and inland navigation transport ADR/RID Hazard label(s) 2.1 tunnel restriction code D Classification code 5F transport in "limited quantities" according to 3.4 ADR is possible

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC standard	
VOC content	87,28 %
VOC value	ca.597 g/L

#### 15.2. Chemical Safety Assessment

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

# **SECTION 16: Other information**

# **Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed. For industrial use only.

#### **Further information**

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EUdirectives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 8.4

EUH066 Repeated exposure may cause skin dryness or cracking.

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.



- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.