

Weicon GmbH

Revision date: 08.08.2011

Revision no.:

1,00

Anti Friction Coating MoS2

7619-0274

1. Product and Company Identification

Commercial product name

Anti Friction Coating MoS2

Further trade names

115390

Chemical characterization (Mixture)

Mixtures of hydrocarbons with propellant propane/butane

Company/undertaking identification

Manufacturer

Weicon GmbH

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2. Hazards Identification

Route(s) of Entry

Skin and eye contact, inhalation and ingestion.

Signs and Symptoms of Exposure

DANGER!

Extremely flammable.

Contents under pressure.

Harmful by inhalation.

OSHA Hazard Communication: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

Carcinogenicity (NTP): Not listed

Carcinogenicity (IARC): Not listed

Carcinogenicity (OSHA): Not listed

3. Composition/Information on Ingredients

Hazardous components

CAS No.	Components	Quantity
106-97-8	butane	30 - 50 %
75-28-5	isobutane	10 - 20 %
123-86-4	n-butyl acetate	10 - 20 %
109-66-0	pentane	10 - 20 %
74-98-6	propane	10 - 20 %
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha	<1 %

4. First Aid Measures

General information

Remove contaminated soaked clothing immediately.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.

In the event of symptoms refer for medical treatment.

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After contact with skin

In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

After contact with eyes

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

If eye irritation persists, consult a specialist.

After ingestion

Do not induce vomiting.

Rinse out mouth thoroughly with water.

Summon a doctor immediately.

Advice to physician

The following symptoms may occur:

Unconsciousness

Anaesthetic state

Headache

Confusion

Dizziness

5. Fire Fighting Measures

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Unsuitable extinguishing media

Full water jet

Special hazards arising from the chemical

Fire may produce:

Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters

Use breathing apparatus with independent air supply.

Additional information

Heating will cause pressure rise with risk of bursting.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental Release Measures

Personal precautions

Keep away sources of ignition.

In case of vapour formation use respirator.

Use only explosion-proof equipment.

Ensure adequate ventilation.

Use personal protective clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. vermiculite, clean sand).

After taking up the material dispose according to regulation.

7. Handling and Storage

Handling

Advice on safe handling

Ensure adequate ventilation.

Avoid contact with skin, eyes and clothing.

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Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Do not spray on a naked flame or any other incandescent material.

Heating will cause pressure rise with risk of bursting.

Further information on handling

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

Storage**Requirements for storage rooms and vessels**

Keep containers tightly closed in a cool, well-ventilated place.

Protect from direct solar radiation.

Store container at cool and aired place.

Advice on storage compatibility

Incompatible with oxidizing agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

8. Exposure Controls/Personal Protection**Exposure limit values****Exposure limits**

CAS No.	Components	ppm	mg/m ³	fib/cc	Category	Origin
123-86-4	Butyl acetate	150	713		TWA (8 h)	TLV
		200	950		STEL (15 min)	TLV
		-	-		Peak	TLV
75-28-5	Isobutane	800	1900		TWA (8 h)	REL
		1000	-		TWA (8 h)	TLV
		-	-		STEL (15 min)	TLV
		-	-		Peak	TLV
109-66-0	Pentane	1000	2950		TWA (8 h)	REL
74-98-6	Propane	1000	1800		TWA (8 h)	REL
		1000	1800		TWA (8 h)	REL
109-66-0	n- Pentane	600			TWA (8 h)	TLV
		-	-		STEL (15 min)	TLV
		-	-		Peak	TLV
106-97-8	n-Butane	800	1900		TWA (8 h)	REL
123-86-4	n-Butyl acetate	150	710		TWA (8 h)	REL
		200	950		STEL (15 min)	REL
123-86-4	n-Butyl-acetate	150	710		TWA (8 h)	REL
109-66-0	n-Pentane	120	350		TWA (8 h)	REL
		C 610	C 1800		Ceiling	REL

Protective and hygiene measures

Ensure adequate ventilation, especially in confined areas.

Wash hands before breaks and immediately after handling the product.

At work do not eat, drink, smoke or take drugs.

Take off immediately all contaminated clothing.

Avoid contact with eyes, skin or mucous membrane.

Respiratory protection

Do not inhale gases/vapours/aerosols.

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In case of insufficient ventilation wear suitable respiratory equipment (gas filter type AX).

Hand protection

Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 60 minutes, i.e. protective glove <Camatril Velours 730> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection

Safety goggles with side protection

Skin protection

Protective coveralls

9. Physical and Chemical Properties**Appearance**

Form:	Aerosol
Color:	Grey
Odor:	Characteristic

Important health, safety and environmental information

Test method

Changes in the physical state

Flash point:	-60 °C
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Explosive properties

"The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated."

Lower explosion limits:	1,4 vol. %
Upper explosion limits:	32 vol. %
Vapour pressure:	3700 hPa
Density (at 20 °C):	0,68 g/cm ³
Water solubility: (at 20 °C)	Insoluble

Other information

Ignition temperature:	510 °C
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10. Stability and Reactivity**Stability**

Stable

Conditions to avoid

Fire or intense heat may cause violent rupture of packages.

Keep away from heat and sources of ignition.

Protect against direct sun radiation.

Formation of explosive gas/air mixtures.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Possibility of Hazardous Reactions

Will not occur

Further information

No decomposition if stored and applied as directed.

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11. Toxicological Information**Acute toxicity**

Description of possible hazards to health effects is based on experience and/or toxicological characteristics of several components.

Harmful by inhalation.

Irritation and corrosivity

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Empirical data on effects on humans

Harmful by inhalation.

Vapours may cause drowsiness and dizziness.

Repeated exposure may cause skin dryness or cracking.

12. Ecological Information**Ecotoxicity**

Not biodegradable.

Further information

Do not discharge product unmonitored into the environment.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Product is not allowed to discharge into the ground water or aquatic environment.

13. Disposal considerations**Advice on disposal**

Where possible recycling is preferred to disposal.

Contaminated packaging

Offer empty spray cans to an established disposal company.

14. Transport Information**US DOT 49 CFR 172.101****Proper shipping name**

AEROSOLS

ID Number: 1950

Hazard Class or Division: 2.1

Packing group: -

Label: 2.1

Land transport (ADR/RID)

UN number: 1950

ADR/RID class: 2

Warning plate

Hazard-no.: -

Hazard label: 2.1



ADR/RID packing group: -

Description of the goods

AEROSOLS

Other applicable information

LQ 2: combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

Additional label with symbol "fish and tree" according to subsection 5.2.1.8.3. ADR for single packagings and inner packagings with > 5 kg or 5 L, transition period ends 31.12.2010.

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Marine transport

UN number:	1950
IMDG code:	2
Marine pollutant:	No
Hazard label:	2.1



IMDG packing group:	-
EmS:	F-D; S-U

Description of the goods

AEROSOLS

Other applicable information

Limited quantities (chapter 3.4): combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass)

Air transport

UN/ID number:	1950
ICAO/IATA-DGR:	2.1
Hazard label:	2.1



ICAO packing group:	-
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

Description of the goods

AEROSOLS FLAMMABLE

15. Regulatory Information**U.S. Regulations****National Inventory TSCA**

All of the components are listed on the TSCA inventory.

SARA

To the best of our knowledge this product contains no toxic chemicals subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

16. Other Information**Hazardous Materials Information Label (HMIS)**

Health:	1
Flammability:	4
Physical Hazard:	0

NFPA Hazard Ratings

Health:	1
Flammability:	4
Reactivity:	0
Unique Hazard:	

**Other data**

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the



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product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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