

Weicon GmbH

Revision date: 08.08.2011

Revision no.:

1,00

Anti Friction Coating MoS2

7619-0274

1. Identification of the substance/mixture and of the company/undertaking**Identification of the substance or mixture**

Anti Friction Coating MoS2

Further trade names

115390

Use of the substance/mixture

Technical aerosol.

Company/undertaking identification**Manufacturer**

Weicon GmbH

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Responsible for the safety data sheet: sds@gbk-ingelheim.de

Supplier

WEICON Inc.

20 Steckle Place, Unit 20

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Telephone: 519 896 5252

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Emergency telephone number: 0 11 49 178 433 74 34 (CONSULTANK Lutz Harder GmbH)

2. Hazards identification**Classification**

Indications of danger : Extremely flammable, Irritant, Dangerous for the environment

R-phrases:

Heating may cause an explosion.

Extremely flammable.

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

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

3. Composition/information on ingredients**Chemical characterization (Mixture)**

Mixtures of hydrocarbons with propellant propane/butane

Hazardous components

CAS No.	Chemical name	Quantity
106-97-8	butane	30 - 50 %
74-98-6	propane	10 - 20 %
75-28-5	isobutane	10 - 20 %
123-86-4	n-butyl acetate	10 - 20 %
109-66-0	pentane	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.

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 doctor

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.

Extinguishing media which must not be used for safety reasons

Full water jet

Special exposure hazards arising from substance or mixture itself, combustion products, resulting gases

Fire may produce:

Carbon monoxide and carbon dioxide.

Special protective equipment for fire-fighters

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.

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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.

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 in a cool and well ventilated place.

Advice on storage compatibility

Incompatible with oxidizing agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storageclass (D): 2 B

8. Exposure controls/personal protection**Exposure limit values****Exposure limits (ACGIH)**

CAS No.	Chemical name	ppm	mg/m ³	F/ml	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	1000	-		TWA (8 h)	TLV
		-	-		STEL (15 min)	TLV
		-	-		Peak	TLV
109-66-0	n- Pentane	600	-		TWA (8 h)	TLV
		-	-		STEL (15 min)	TLV
		-	-		Peak	TLV

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.

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

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Hand protection

Protective gloves resistant to chemicals made of 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 overalls

9. Physical and chemical properties**General information**

Physical state:	Aerosol
Colour:	Grey
Odour:	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**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.

Further information

No decomposition if stored and applied as directed.

11. Toxicological information**Acute toxicity**

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

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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**Canadian TDG****Proper shipping name**

AEROSOLS

UN/ID number: 1950

Hazard classes: 2.1

Packing group: -

Hazard 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 (land transport)

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.

Marine transport

UN number: 1950

IMDG code: 2

Marine pollutant: No

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Hazard label: 2.1



IMDG packing group: -

EmS: F-D; S-U

Description of the goods

AEROSOLS

Other applicable information (marine transport)

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**Canadian regulations****DSL/NDSL inventory status**

All of the components are listed on the DSL Inventory.

WHMIS classification

WHMIS: A, B5, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

16. Other information**Further Information**

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 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.)