

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.01.2015

Version 1

Revision: 26.01.2015

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

1.1 Product identifier

Trade name: mibenco LIQUID RUBBER SPRAY

1.2 Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Application of the substance / the preparation:

It is a multifunctional, one-component rubber coating which can be applied by spraying lightly and quickly. The sprays find their application in the craft and DIY, model construction, automotive sector as well as in the industry.

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier:

mibenco@ gmbh
Am Sportplatz 5
63791 Karlstein
GERMANY

Homepage: www.mibenco.com
E-mail: info@mibenco.com
Phone: +49(0)6188-9575-20

Further information obtainable from: Geschäftsführung

Phone: +49(0)6188-9575-20
+49 (0) 6131-19240 (24h)

1.4 Emergency telephone number: Poison Control Center Mainz

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.



Xi; Irritant

R38: Irritating to skin.



F+; Extremely flammable

R12: Extremely flammable.

Information concerning particular hazards for human and environment:

The product has to be labelled according to 1272/2008/EC (GHS - Global Harmonized System; CLP - Classification, Labelling and Packaging in Europe).

Warning! Pressurised container.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02



GHS07

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Signal word Danger**Hazard statements**

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

H315 Causes skin irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P251 Pressurized container: Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P280 Wear protective gloves / eye protection.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Additional information:

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

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures****Description:**

Mixture of substances listed below with nonhazardous additions.

Solvent naphtha: benzene content < 0,1%

Dangerous components:

CAS: 115-10-6	dimethyl ether	ca. 50%
EINECS: 204-065-8	F+ R12	
	Flam. Gas 1, H220	
	Press. Gas C, H280	
CAS: 1330-20-7	xylene	25 - ≤ 50%
EINECS: 215-535-7	Xn R20/21	
	Xi R38	
	R10	
	Flam. Liq. 3, H226	
	Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	1 - 2%
EINECS: 265-151-9	Xn R65	
	Asp. Tox. 1, H304	
CAS: 13463-67-7	titanium dioxide	1 - 2%
EINECS: 236-675-5	substance with a Community workplace exposure limit	

Additional information: For the wording of the listed risk phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient in stably side position for transportation.

After skin contact:

Remove and wash contaminated clothing.

Immediately wash with water and soap and rinse thoroughly.

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After eye contact: Rinse opened eye for several minutes under running water.**After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed Erythema**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media**Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Exposure to fire may cause rupture / explosion of the containers.

5.3 Advice for firefighters**Protective equipment:** Wear self-contained respiratory protective device.**Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

Ensure adequate ventilation.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use solvent-proof equipment.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Protect against electrostatic charges.

Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:** Storerooms must be well ventilated.**Information about storage in one common storage facility:**

Storage in the near of other chemicals or products has to be verified.

Further information about storage conditions: Protect from heat and direct sunlight.

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7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:**115-10-6 dimethyl ether**WEL (Great Britain) Short-term value: 958 mg/m³, 500 ppm
Long-term value: 766 mg/m³, 400 ppmIOELV (EU) Long-term value: 1920 mg/m³, 1000 ppm**1330-20-7 xylene**WEL (Great Britain) Short-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
Sk; BMGVIOELV (EU) Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 50 ppm
Skin**13463-67-7 titanium dioxide**WEL (Great Britain) Long-term value: 10* 4** mg/m³
*total inhalable **respirable**DNELs**Long-term exposition - inhalation - systemic: 77 mg/m³Short-term exposition - inhalation: 289 mg/m³

Long-term exposition - dermal: 180 mg/kg bw/day

Substance: xylene

Source: European Chemicals Agency

PNECs Not determined.**Ingredients with biological limit values:****1330-20-7 xylene**BMGV (Great Britain) 650 mmol/mol creatinine
Medium: urine
Sampling time: post shift
Parameter: methyl hippuric acid**Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device when high concentrations are present.

Short term filter device:

Filter AX

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Wear gloves for the protection against chemical hazards according to EN 374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore

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to be checked prior to the application.

Penetration time of glove material

Material layer thickness: ca. 0.7 mm, breakthrough time: > 480 min (Viton)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles**Body protection:** Protective work clothing**Limitation and supervision of exposure into the environment**

See section 6 and 12 for further information.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information****Appearance:****Form:**

Aerosol

Colour:

Different according to colouring

Odour:

Solvent-like

Odour threshold:

Not determined.

pH-value:

Not applicable.

Change in condition**Melting point/Melting range:**

Undetermined.

Boiling point/Boiling range:

35 °C (dimethylether)

Flash point:

-42 °C (dimethylether)

Flammability (solid, gaseous):

Not applicable.

Ignition temperature:

240 °C (dimethylether)

Decomposition temperature:

Not determined.

Self-igniting:

Product is not self-igniting.

Danger of explosion:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:**Lower:**

2.7 Vol % (dimethylether)

Upper:

32 Vol % (dimethylether)

Vapour pressure:

Not determined.

Density:

Not determined.

Relative density

Not determined.

Vapour density

1.63 (air = 1; dimethylether)

Evaporation rate

Not determined.

Solubility in / Miscibility with water:

Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.**Viscosity:****Dynamic:**

Not determined.

Kinematic:

Not determined.

VOC (EC)

810 - 820 g/L

Solids content:

ca. 25 %

9.2 Other information

No further relevant information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.**10.4 Conditions to avoid** Handle only outside or in explosion protected rooms.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:** No dangerous decomposition products known.**Additional information:** In case of thermal decomposition irritating gases may occur.

SECTION 11: Toxicological information

11.1 Information on toxicological effects**Acute oral toxicity****1330-20-7 xylene**

Oral LD50 4300 mg/kg (rat)

Acute dermal toxicity**1330-20-7 xylene**

Dermal LD50 > 1700 mg/kg (rabbit)

Acute inhalative toxicity**1330-20-7 xylene**

Inhalative LC50 21.7 mg/L (rat) (4h)

Primary irritant effect:**On the skin:** Irritant to skin and mucous membranes.**Sensitisation:** No sensitising effects known.**Other information (about experimental toxicology):**

Solvent vapors can lead to health problems above the occupational exposure limit, such as irritation of the mucous membranes and respiratory system, liver, kidneys and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscle weakness, drowsiness and in extreme cases, unconsciousness. Solvents may cause these effects by skin absorption. Prolonged or repeated contact with product may cause degreasing of the skin and can cause non-allergic contact damage and / or absorption. Splashes may cause irritation and reversible damage of the eyes.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

No evidence of carcinogenic activity.

SECTION 12: Ecological information

12.1 Toxicity

The product is not classified as dangerous for the environment. Nevertheless, larger leaks may have a harmful effect on the environment.

Fish toxicity**1330-20-7 xylene**

LC50 15.7 mg/L (fish) (96h)

Daphnia toxicity**1330-20-7 xylene**

LC50 8.5 mg/L (Daphnia Magna) (48h)

12.2 Persistence and degradability No further relevant information available.

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12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue EAK-Code: 16 05 04*

Uncleaned packaging:

Recommendation:

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA

UN1950

14.2 UN proper shipping name

ADR, IMDG

AEROSOLS

IATA

AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR



Class

2 5F Gases.

Label

2.1

IMDG, IATA



Class

2.1

Label

2.1

14.4 Packing group

ADR, IMDG, IATA

Void

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

Warning: Gases.

Danger code (Kemler):

-

EMS Number:

F-D,S-U

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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Transport/Additional information:**ADR****Limited quantities (LQ)**

1L

Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

Transport category

2

Tunnel restriction code

D

IMDG**Limited quantities (LQ)**

1L

Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:****Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H220 Extremely flammable gas.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.

- R10 Flammable.
- R12 Extremely flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R38 Irritating to skin.
- R65 Harmful: may cause lung damage if swallowed.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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 Harmonised 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 (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas C: Gases under pressure: Compressed gas

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Sources GESTIS: Data base see www.dguv.de