Safety Data Sheet
according to EC-Regulation 91/155/EEC

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

MOS2 ANTI-FRICTION 300 ml
Art.: 2009

Use of the substance/preparation
Lubricant

Company/undertaking identification
LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr
Telephone (+49) 0731-1420-0, Fax (+49) 0731-1420-88

Emergency telephone / Office for advice
Advisory office in case of poisoning:
Tel.: Telephone number of the company in case of emergencies:
Tel. (+49) 0731-1420-0

2. Composition/information on ingredients

2.1 Chemical name
content % symbol R-phrases EINECS, ELINCS
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3. Hazards identification

3.1 To people
See point 11 and 15.
Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

3.2 To the environment
See point 12.
Product can compose a film on the water surface, which can prevent oxygen exchange.

4. First aid measures

4.1 Inhalation
Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.

4.2 Eye contact
Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

4.3 Skin contact
Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.4 Ingestion
Rinse the mouth thoroughly with water.
Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.5 Special resources necessary for first aid
Indications for the physician:
Symptomatic treatment

5. Fire-fighting measures
5.1 Suitable extinguishing media
CO2
Dry extinguisher
Foam
Cool container at risk with water.

5.2 Extinguishing media which must not be used for safety reasons
High volume water jet

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
In case of fire the following can develop:
Oxides of carbon
Oxides of sulphur
Toxic pyrolysis products.
Hot product gives off combustible vapours.

5.4 Special protective equipment for fire-fighters
Protective respirator with independent air supply
According to size of fire
Full protection, if necessary

5.5 Further information
Dispose of contaminated extinction water according to official regulations.

6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions
Ensure sufficient supply of air.
Avoid formation of oil mist.
Avoid contact with eyes or skin.
If applicable, caution - risk of slipping.
Do not carry cleaning cloths soaked in product in trouser pockets.

6.2 Environmental measures
If leakage occurs, dam up.
Prevent from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods for cleaning up
Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

7. Handling and storage

7.1 Handling
Tips for safe handling:
See point 6.1
Ensure good ventilation.
Do not heat to temperatures close to flash point.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Wash hands before breaks and at end of work.
General hygiene measures for the handling of chemicals are applicable.
Observe directions on label and instructions for use.

7.2 Storage
Requirements for storage rooms and containers:
Store products only unopened, in original packing.
Not to be stored in gangways or stair wells.
Solvent resistant floor
Do not store with oxidizing agents.

Special storage conditions:
See point 10.2
Store in a well ventilated place.
8. Exposure controls/personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the OES, MEL or MAK values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

![Chemical Name]

- Chemical Name: Oil mist, mineral
  - WEL-TWA: 5 mg/m³ (ACGIH)
  - WEL-STEL: 10 mg/m³ (ACGIH)
  - BMGV: ---
  - Other information: ---

- Chemical Name: Baseoil - unspecified
  - WEL-TWA: 70 ppm (350 mg/m³) (AG)
  - WEL-STEL: 4 (AG)
  - BMGV: ---
  - Other information: ---

- Chemical Name: Molybdenum disulphide
  - WEL-TWA: 10 mg/m³ (molybdenum insoluble compounds, as Mo)
  - WEL-STEL: 20 mg/m³ (molybdenum insoluble compounds, as Mo)
  - BMGV: ---
  - Other information: ---


8.1 Respiratory protection: Normally not necessary.

With oil mist formation
Filter A P 3 (EN 141)

8.2 Hand protection: Protective gloves, oil resistant (EN 374)

If applicable
Protective nitrile gloves (EN 374)
Protective Neopren gloves (EN 374).
Protective hand cream recommended.

8.3 Eye protection: Tight fitting protective goggles with side protection (EN 166).

8.4 Skin protection: Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.
Selection made for preparations according to the best available knowledge and information on the ingredients.
Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

9. Physical and chemical properties

- Physical state: Liquid
- Colour: Silver, Grey
- Odour: Characteristic
- pH-value undiluted: n.a.
- Boiling point/range (°C): n.v.
- Melting point/range (°C): n.v.
- Flash point (°C): 180
- Oxidising properties: No
- Minimum limit of explosion: n.a.
- Maximum limit of explosion: n.a.
- Vapour pressure: n.g.
- Relative density: 0.89 (20°C)
- Solubility in water: Insoluble
- Vapour density (air = 1): n.g.
- Viscosity: 92 mm²/s (40°C)

10. Stability and reactivity

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10.1 Conditions to avoid
See point 7
Stable when handled and stored correctly.
Strong heat

10.2 Materials to avoid
See point 7
Avoid contact with strong oxidizing agents.

10.3 Hazardous decomposition products
See point 5.3

11. Toxicological information

11.1 Acute toxicity and immediate effects
Inhalation, LC50 rat inhal. (mg/l/4h): n.v.
Eye contact: n.v.

11.2 Delayed and chronic effects
Sensitization: n.g.
Carcinogenicity: n.g.
Mutagenicity: n.g.
Reproductive toxicity: n.g.
Narcosis: n.g.

11.3. Further information
No classification according to calculation procedure.
The following may occur:
With long-term contact:
Product removes fat
Drying of the skin.
Dermatitis (skin inflammation)

12. Ecological information

Water hazard class (Germany): 2
Self classification: Yes (VwVwS)
Persistence and degradability: n.v.
Behaviour in sewage plants: Mechanical precipitation possible.
According to the recipe, contains no AOX.
Aquatic toxicity: n.v.
Ecological toxicity: n.v.

13. Disposal considerations

13.1. for the material / preparation / residue
Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.
EC disposal code no.:
The waste codes are recommendations based on the scheduled use of this product.
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.
13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils
Recommendation:
Pay attention to local and national official regulations
Implement substance recycling.
E.g. suitable incineration plant.

13.2 for contaminated packing material
See point 13.1
Pay attention to local and national official regulations
Empty container completely.
Uncontaminated packaging can be recycled.
Dispose of packaging that cannot be cleaned in the same manner as the substance.
14. Transport information

General statements
UN-Number: n.a.
Road/Rail-transport (ADR/RID)
Class/packing-group: n.a.
Classification code: n.a.
LQ: n.a.
Transport by sea
IMDG-code: n.a. (class/packing-group)
Marine Pollutant: n.a
Transport by air
IATA: n.a. (class/secondary danger/packing-group)
Additional information:
Non-dangerous material according to Transport Regulations.

15. Regulatory information

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)
Symbols: Not applicable
Indications of danger: ---
R-phrases:
S-phrases:
Additions:
Observe restrictions: n.a.

16. Other information

These details refer to the product as it is delivered.
Storage class VCI (Germany): 10/12
Revised points: 15

Legend:
n.a. = not applicable / n.v., k.D.v. = not available / n.g. = not checked
OES = Occupational exposure standard / MEL = Maximum exposure limit / BMGV = Biological monitoring guidance value
AG = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BG = "Biologischer Grenzwert" (biological limit value, Germany)
VbF = Regulations for flammable liquids (Austria)
WV/WvS = Administrative Order relating to substances hazardous to water (Germany)
The statements made here should describe the product with regard to the necessary safety precautions - they are
not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.
These statements were made by:
Chemical Check GmbH, Beim Staumberge 3, D-32839 Steinheim, Tel.: 01805-CHEMICAL / 01805-243 642, Fax: 05233-941790
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