

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 30.10.2013

Version number 1

Revision: 30.10.2013

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

- **Product identifier**
- **Trade name: 74947416 (Molykote M77)**
 - **Article number:** 74947416
 - **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
 - **Application of the substance / the mixture** Lubricant
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
TRW Automotive Aftermarket
Stratford Road
Shirley
West Midlands
B90 4AX
United Kingdom
Tel. +44.121.506.5000
Fax +44.121.506.5001
www.trwaftermarket.com
cst.uk@trw.com
 - **Informing department:** Tel.: +49 (0) 2631 / 912 - 0
 - **Emergency telephone number:**
Poison Information Center Munich
Phone: +49 (0) 89 - 19 240
Information in German and English

2 Hazards identification

- **Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
 - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
 - **Information concerning particular hazards for human and environment:**
Based on current available information the product / substance / mixture does not require labelling.
 - **Classification system:**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
- **Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008** Void
 - **Hazard pictograms** Void
 - **Signal word** Void
 - **Hazard statements** Void

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.10.2013

Version number 1

Revision: 30.10.2013

Trade name: 74947416 (Molykote M77)

(Contd. from page 1)

- **Precautionary statements**
 - P271 Use only outdoors or in a well-ventilated area.
 - P260 Do not breathe vapours.
- **Other hazards**
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Molybdenum disulphide lubricant

- **Dangerous components:**

CAS: 1317-33-5	molybdenum disulphide	10-<25%
EINECS: 215-263-9	substance with a Community workplace exposure limit	

4 First aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
The product is not skin irritating.
If skin irritation continues, consult a doctor.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.
- **Information for doctor**
 - **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
 - **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** None known.
- **Special hazards arising from the substance or mixture**
Inhalation of combustion gases may cause serious health hazards.
During incomplete combustion carbon monoxide can be formed.
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

(Contd. on page 3)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.10.2013

Version number 1

Revision: 30.10.2013

Trade name: 74947416 (Molykote M77)

(Contd. from page 2)

Silicon dioxide

Sulphur dioxide (SO₂)

- **Advice for firefighters**

- **Protective equipment:** Wear self-contained breathing apparatus.

- **Additional information**

- Remove fill mass from incendiary zone, if possible.

- Use water to keep fire exposed containers cool.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

- Particular danger of slipping on leaked/spilled product.

- **Environmental precautions:**

- Gather mechanically and reuse, if possible.

- Clean contaminated surfaces thoroughly.

- **Methods and material for containment and cleaning up:**

- Collect mechanically.

- Dispose of the material collected according to regulations.

- **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 information on disposal.

7 Handling and storage

- **Handling**

- **Precautions for safe handling**

- Avoid contact with eyes and skin.

- Ensure good ventilation/exhaustion at the workplace.

- **Information about protection against explosions and fires:**

- No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and containers:**

- Store only in the original container.

- **Information about storage in one common storage facility:**

- Store away from oxidizing agents.

- Store away from foodstuffs.

- **Further information about storage conditions:** Keep container tightly sealed.

- **Maximum storage temperature:** 40 °C

- **Minimum storage temperature:** 0 °C

- **Specific end use(s):** No further relevant information available.

GB

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.10.2013

Version number 1

Revision: 30.10.2013

Trade name: 74947416 (Molykote M77)

(Contd. from page 3)

8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

1317-33-5 molybdenum disulphide

WEL (Great Britain)	Short-term value: 20 mg/m ³ Long-term value: 10 mg/m ³ as Mo
---------------------	--

- **Additional information:**

The lists that were valid during the compilation were used as basis.

- **Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

Avoid close or long term contact with the skin.

Do not carry cleaning cloths impregnated with the product in trouser pockets.

Wash hands during breaks and at the end of the work.

- **Breathing equipment:**

Not necessary if room is well-ventilated.

Use breathing protection in case of insufficient ventilation.

Filter B.

- **Protection of hands:** No special precautions necessary if used correctly.

- **Material of gloves** Not applicable.

- **Penetration time of glove material** Not applicable.

- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

- **Form:**

Pasty

- **Colour:**

Dark grey

- **Odour:**

Light

- **Odour threshold:**

Not determined.

- **pH-value:**

Not applicable.

- **Change in condition**

- **Melting point/Melting range:**

Not determined

- **Boiling point/Boiling range:**

Not determined

- **Flash point:**

Not applicable

- **Inflammability (solid, gaseous)**

Not applicable.

- **Self-inflammability:**

Product is not selfigniting.

- **Danger of explosion:**

Product is not explosive.

(Contd. on page 5)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.10.2013

Version number 1

Revision: 30.10.2013

Trade name: 74947416 (Molykote M77)

(Contd. from page 4)

- | | |
|---|------------------------------------|
| · Critical values for explosion: | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Vapour pressure: Not determined. | |
| · Density at 20 °C 1.9 g/cm ³ | |
| · Evaporation rate Not determined. | |
| · Solubility in / Miscibility with | |
| · Water: | Insoluble |
| · Partition coefficient (n-octanol/water): Not determined. | |
| · Viscosity: | |
| · dynamic: | Not determined.
Not applicable. |
| · kinematic: | Not applicable. |
| · Other information No further relevant information available. | |

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Avoid contact with strong oxidizing agents.
- **Hazardous decomposition products:**
Small quantities of formaldehyde may be formed

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
 - **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** Slightly irritant
 - **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

GB

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.10.2013

Version number 1

Revision: 30.10.2013

Trade name: 74947416 (Molykote M77)

(Contd. from page 5)

12 Ecological information

- **Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** Heavily biodegradable
 - **Other information:** There are no data available about the preparation.
- **Behaviour in environmental systems:**
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
 - **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
 - **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**

Must be specially treated under adherence to official regulations.

The waste code numbers mentioned are recommendations based on the probable use of the product.

- **European waste catalogue**

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 02 00	waste engine, gear and lubricating oils
13 02 06*	synthetic engine, gear and lubricating oils

- **Uncleaned packagings:**
 - **Recommendation:** Deposit drained containers in the waste.

14 Transport information

- **UN-Number**
 - **ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
 - **ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
 - **ADR, ADN, IMDG, IATA**
 - **Class** Void

(Contd. on page 7)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.10.2013

Version number 1

Revision: 30.10.2013

Trade name: 74947416 (Molykote M77)

(Contd. from page 6)

- | | |
|--|-----------------|
| · Packing group
· ADR, IMDG, IATA | Void |
| · Environmental hazards:
· Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** Void
 - **Hazard pictograms** Void
 - **Signal word** Void
 - **Hazard statements** Void
 - **Precautionary statements**
 - P271 Use only outdoors or in a well-ventilated area.
 - P260 Do not breathe vapours.
- **National regulations**
- **Water hazard class:**
 - Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Chemical safety assessment:**
 - A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:**

This Material Safety Data Sheet has been drawn up in cooperation with:
DEKRA Consulting GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
tel.: (+49) 511 42079 311, reach@dekra.com.
- **Abbreviations and acronyms:**
 - 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 Harmonized 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)

GB