



Safety data sheet according to UK REACH

Printing date 11.09.2024

Version number 3 (replaces version 2)

Revision: 12.07.2018

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

· 1.1 Product identifier

· Trade name: **TRW Assembly Paste (Molykote M77)**

· Article number: 74947416.Z, 74947416

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

No further relevant information available.

· Application of the substance / the mixture Lubricant

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

ZF Aftermarket UK Ltd.

Abbeyfield Road

Lenton

Nottingham, NG7 2SX

Tel +44 333 240 1123

Fax +44 115 986 92 61

<https://www.zf.com>

· Informing department:

Phone: +49 (0) 2631 / 912 - 0

E-Mail adress of the competent person for the safety data sheet:

reach@dekra.com

· 1.4 Emergency telephone number:

Poison Information Center Munich

Phone: +49 (0) 89 - 19 240

Information in German and English

* SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the GB CLP regulation.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008 Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

· Additional information:

Please refer to further labelling elements in section 15 of this safety data sheet, if applicable.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

* SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Molydenum disulphide lubricant

(Contd. on page 2)

— GB —



Safety data sheet according to UK REACH

Printing date 11.09.2024

Version number 3 (replaces version 2)

Revision: 12.07.2018

Trade name: TRW Assembly Paste (Molykote M77)

(Contd. from page 1)

· Dangerous components:

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

*** SECTION 4: First aid measures****· 4.1 Description of first aid measures****· General information** No special measures required.**· After inhalation**

Supply fresh air; consult doctor in case of symptoms.

In case of unconsciousness bring patient into stable side position for transport.

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

In case of permanent aches and pains please go and see the doctor.

· After eye contact

Use eye protection.

Remove contact lenses if possible.

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· After swallowing

In case of persistent symptoms consult doctor.

Do not induce vomiting.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 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**

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.**· 5.2 Special hazards arising from the substance or mixture**

Inhalation of combustion gases may cause serious health hazards.

Can be released in case of fire:

Silicon dioxide

Sulphur dioxide (SO₂)

Carbon monoxide and carbon dioxide

· 5.3 Advice for firefighters**· Protective equipment:** Wear self-contained breathing apparatus.**· Additional information** Use water to keep fire exposed containers cool.*** SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures**

Clear the danger zone.

Avoid contact with the product.

(Contd. on page 3)

GB



Safety data sheet according to UK REACH

Printing date 11.09.2024

Version number 3 (replaces version 2)

Revision: 12.07.2018

Trade name: TRW Assembly Paste (Molykote M77)

(Contd. from page 2)

- Particular danger of slipping on leaked/spilled product.
- **For non-emergency personnel** Evacuate personnel to safe area.
- **For emergency responders** Put on suitable personal protective equipment.
- **6.2 Environmental precautions:**
 - Clean contaminated surfaces thoroughly.
 - Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - Collect mechanically.
 - Dispose of the material collected according to regulations.
- **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 information on disposal.

* SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 - Open and handle container with care.
 - Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Handling**
 - The usual precautionary measures should be adhered to general rules for handling lubricants.
 - Do not eat, drink or smoke while working.
 - Avoid direct contact with eyes, skin and clothing.
 - Wash hands during breaks and at the end of the work.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
 - Store cool and dry in well sealed containers.
 - Store only in the original container.
 - Ensure sufficient ventilation.
- **Information about storage in one common storage facility:**
 - Store away from oxidising agents.
 - Keep away from food, drink and animal feeding stuffs.
- **Further information about storage conditions:**
 - Protect from heat and direct sunlight.
 - Protect from frost.
- **Maximum storage temperature:** 40°C
- **Minimum storage temperature:** 0°C
- **7.3 Specific end use(s)** No further relevant information available.

* SECTION 8: Exposure controls/personal protection

· 8.1 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
---------------------	--

(Contd. on page 4)

Safety data sheet
according to UK REACH

Printing date 11.09.2024

Version number 3 (replaces version 2)

Revision: 12.07.2018

Trade name: TRW Assembly Paste (Molykote M77)

(Contd. from page 3)

OEL (Ireland)	Long-term value: 10* 3** mg/m ³ as Mo, *inhalable **respirable
---------------	--

• **Additional information:** The lists that were valid during the compilation were used as basis.

• **8.2 Exposure controls**

• **Individual protection measures, such as personal protective equipment**

• **General protective and hygienic measures**

- Keep away from foodstuffs, beverages and food.
- Take off all contaminated clothing immediately.
- Wash hands during breaks and at the end of the work.
- Avoid contact with the eyes and skin.
- Avoid close or long term contact with the skin.

• **Breathing equipment:**

- Not necessary if room is well-ventilated.
- Use breathing protection in case of insufficient ventilation.
- Filter B.

• **Hand protection**



Protective gloves.

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
Only use chemical-protective gloves with CE-labelling of category III (EN 374).

• **Material of gloves**

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 to be checked prior to the application.

• **Penetration time of glove material**

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

• **Eye/face protection**



Safety glasses

* **SECTION 9: Physical and chemical properties**

• **9.1 Information on basic physical and chemical properties**

• **General Information**

• **Physical state**

Solid

• **Colour:**

Dark grey

• **Odour:**

Light

• **Odour threshold:**

Not determined.

(Contd. on page 5)

—GB—

**Safety data sheet**
according to UK REACH

Printing date 11.09.2024

Version number 3 (replaces version 2)

Revision: 12.07.2018

Trade name: TRW Assembly Paste (Molykote M77)

(Contd. from page 4)

<ul style="list-style-type: none">· Melting point/freezing point:· Boiling point or initial boiling point and boiling range· Flammability· Lower and upper explosion limit· Lower:· Upper:· Flash point:· SADT· pH· Viscosity:· Kinematic viscosity dynamic: · Solubility· Water:· Partition coefficient n-octanol/water (log value)· Vapour pressure: · Density and/or relative density· Density at 20 °C	<p>Not determined</p> <p>Not determined</p> <p>Not applicable.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not applicable</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not determined.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Insoluble</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not applicable.</p> <p>1.9 g/cm³</p>
<ul style="list-style-type: none">· 9.2 Other information· Appearance:· Form:· Important information on protection of health and environment, and on safety.· Self-inflammability:· Explosive properties:· Change in condition· Evaporation rate	<p>Pasty</p> <p>Product is not selfigniting.</p> <p>Product is not explosive.</p> <p>Not determined.</p>
<ul style="list-style-type: none">· Information with regard to physical hazard classes· Explosives· Flammable gases· Aerosols· Oxidising gases· Gases under pressure· Flammable liquids· Flammable solids· Self-reactive substances and mixtures· Pyrophoric liquids· Pyrophoric solids· Self-heating substances and mixtures· Substances and mixtures, which emit flammable gases in contact with water· Oxidising liquids· Oxidising solids· Organic peroxides· Corrosive to metals	<p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p>

(Contd. on page 6)

GB



Safety data sheet according to UK REACH

Printing date 11.09.2024

Version number 3 (replaces version 2)

Revision: 12.07.2018

Trade name: TRW Assembly Paste (Molykote M77)

(Contd. from page 5)

· Desensitised explosives	Void
----------------------------------	------

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **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** No further relevant information available.
- **10.5 Incompatible materials:** Avoid contact with strong oxidizing agents.
- **10.6 Hazardous decomposition products:** Small quantities of formaldehyde may be formed

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Slightly irritant
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

· Endocrine disrupting properties
--

None of the ingredients is listed.

* SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Heavily biodegradable
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.

(Contd. on page 7)

GB



Safety data sheet according to UK REACH

Printing date 11.09.2024

Version number 3 (replaces version 2)

Revision: 12.07.2018

Trade name: TRW Assembly Paste (Molykote M77)

(Contd. from page 6)

· Additional ecological information:**· General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

*** SECTION 13: Disposal considerations****· 13.1 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:**

Disposal must be made according to official regulations.

Dispose of packaging according to regulations on the disposal of packagings.

Non contaminated packagings can be used for recycling.

Cleaned packing materials have to be admitted to local recycling circuits.

*** SECTION 14: Transport information**

· 14.1 UN number or ID number · ADR/RID, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR/RID, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR/RID, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR/RID, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

(Contd. on page 8)

GB



Safety data sheet according to UK REACH

Printing date 11.09.2024

Version number 3 (replaces version 2)

Revision: 12.07.2018

Trade name: TRW Assembly Paste (Molykote M77)

(Contd. from page 7)

· UN "Model Regulation":	Void
--------------------------	------

* SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Poisons Act

· Regulated explosives precursors
--

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

1317-33-5 molybdenum disulphide

Listed

- **Chemical safety assessment**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS
--

None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* SECTION 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 Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

© DEKRA Assurance Services GmbH. Changing this documents is subject to explicit acceptance by DEKRA Assurance Services GmbH.

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

(Contd. on page 9)

GB



Safety data sheet
according to UK REACH

Printing date 11.09.2024

Version number 3 (replaces version 2)

Revision: 12.07.2018

Trade name: TRW Assembly Paste (Molykote M77)

(Contd. from page 8)

- **Sources** Because of lack on recipe information, this SDS was created on the basis of the supplier's SDS.
 - *** Data compared to the previous version altered.**
-

— GB —