



# TRW Mounting Fluid

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## SECTION 1: Identification

### Product identifier

**Trade name**

TRW Mounting Fluid

**Article No.**

32960018, 32960018.Z

### Recommended use of the chemical and restrictions on use

**Use**

Lubricating oil

**Not suitable for use in**

Restricted to professional users.

### Supplier's details

**SDS created by**

Global Division B Product Compliance Mgmt. System (BWC)

**Supplier**

ZF Aftermarket

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**Contact person**

Global Division B Product Compliance Mgmt. System (BWC)

### Emergency phone number

(+49) 89 19 240 - available in English; 112



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**Available outside office hours**

Yes

**SECTION 2: Hazard identification**

**Classification of the substance or mixture and any national or regional information**

**Description**

Not a hazardous substance or mixture.

**Label elements, including precautionary statements**

**More information**

Not a hazardous substance or mixture.

**Other hazards which do not result in classification**

No data available

**SECTION 3: Composition/information on ingredients**

**Mixture**

**Product based on**

ester oil, polyalkylene glycol oil, Paint

**Substance additional information**

No hazardous ingredients

**SECTION 4: First-aid measures**

**Description of necessary first-aid measures**

**Inhalation**

Remove victim to fresh air. If signs/symptoms persist, seek medical attention. Keep victim warm and calm. If breathing is irregular or stops, give artificial respiration.

**Skin contact**

Remove contaminated clothing. If irritation occurs, seek medical attention. Wash with soap and water.



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## **Eye contact**

Immediately rinse with plenty of water for at least 10 minutes, also under the eyelids. If eye irritation persists, seek medical attention.

## **Ingestion**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Remove person to fresh air and keep comfortable for breathing.

## **Most important symptoms/effects, acute and delayed**

No symptoms known or expected.

## **Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

### **Suitable (and unsuitable) extinguishing media**

#### **Suitable extinguishing media**

Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish.

#### **Unsuitable extinguishing media**

Do not use water jet.

### **Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products).**

Carbon oxides  
nitrogen oxides

### **Special protective actions for fire-fighters**

#### **Special protective equipment for fire-fighters**

In case of fire, wear self-contained breathing apparatus. Use personal protective equipment. Inhalation of decomposition products can be harmful to health.

### **Other**

#### **Measures in case of fire**

Standard procedure for chemical fires.



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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas.  
Use personal protective equipment as required.  
Refer to protective measures listed in sections 7 and 8.

### Environmental precautions

Prevent material from entering drains or water courses. If large spills cannot be contained, local authorities should be notified.

### Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### Reference to other sections

For personal protection, see section 8.

## SECTION 7: Handling and storage

### Precautions for safe handling

#### **Preventive handling precautions**

For personal protection, see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

#### **General hygiene**

Wash hands and face before breaks and immediately after handling the product.

### Conditions for safe storage, including any incompatibilities

Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

### Specific end use(s)

Specific instructions for handling, not required.



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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### Exposure limits

Occupational exposure limits: No exposure limit value known.

Biological Limit Values (BLV): No exposure limit value known.

#### DNEL/DMEL

| Product/Substance name<br>(CAS No./EC No.)            | Type | Exposure                          | Value                  | Population | Effects  |
|-------------------------------------------------------|------|-----------------------------------|------------------------|------------|----------|
| bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine<br>(-/-) | DNEL | Chronic (long term)<br>Inhalation | 49.3 mg/m <sup>3</sup> | Workers    | Systemic |
| bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine<br>(-/-) | DNEL | Chronic (long term)<br>Dermal     | 14 mg/kg bw/day        | Workers    | Systemic |

### Appropriate engineering controls

#### Appropriate engineering controls

none.

#### Eye / face protection

Safety glasses with side shields.

#### Hand protection

Material: nitrile rubber.

Breakthrough time: > 10 min

Protective index: Class 1

For prolonged or repeated contact use protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

#### Other skin protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

#### Respiratory protection

Not required; except in case of aerosol formation.

Filter type: A-P

#### Thermal hazards

Not required.



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## **Environmental exposure controls**

Air: No special environmental precautions required.

Soil / Water: The product should not be allowed to enter drains, water courses or the soil.

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

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

#### **Physical state**

Liquid

#### **Colour**

Red.

#### **Odour**

Characteristic.

#### **Odour threshold**

No data available.

#### **Melting point / freezing point**

No data available.

#### **Boiling point or initial boiling point and boiling range**

No data available.

#### **Flammability**

Not applicable.

#### **Lower and upper explosion limit**

No data available.

#### **Flash point**

≥ 200 °C

#### **Method**

OC (Open cup).

#### **Auto-ignition temperature**

No data available.

#### **Decomposition temperature**

No data available.

#### **pH**

Not applicable. substance/mixture is non-soluble (in water).



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**Kinematic viscosity**

~ 115 mm<sup>2</sup>/s

**Method**

40 °C

**Viscosity, dynamic**

No data available.

**Solubility**

Insoluble (water); No data available (other solvents).

**Water solubility**

Insoluble in water.

**Partition coefficient n-octanol/water**

No data available.

**Vapour pressure**

< 0.001 hPa

**Density and/or relative density**

~ 0.96 g/cm<sup>3</sup>

**Method**

20 °C

**Relative density**

0,960 (20 °C)

**Relative vapour density**

No data available.

**Method**

(20 °C) Reference substance: water

The value is calculated.

**Evaporation Rate**

No data available.

**Explosive properties**

Not explosive

**Oxidising properties**

No data available.

**VOC %**

No data available.



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**Particle characteristics**

No data available

**Other information**

No data available

## SECTION 10: Stability and reactivity

**Reactivity**

No hazards to be specially mentioned.

**Chemical stability**

Stable under normal use conditions.

**Possibility of hazardous reactions**

No dangerous reactions known when used as directed.

**Conditions to avoid**

No conditions to be specially mentioned.

**Incompatible materials**

No materials to be especially mentioned.

**Hazardous decomposition products**

No decomposition if stored and applied as directed.

## SECTION 11. Toxicological information

**Information on the likely routes of exposure**

**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**

Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.



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**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Repeated dose toxicity**

No data available.

**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.

**Information on other hazards**

**Endocrine disrupting properties**

Not applicable.

## SECTION 12: Ecological information

**Toxicity**

**Acute toxicity**

Based on available data, the classification criteria are not met.

**Toxicity**

No data available.

**Aquatic**

No data available.

**Soil**

No data available.

**Acute fish toxicity**

No data available.

**Acute algae toxicity**

No data available.



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**Acute crustacean toxicity**

No data available.

**Micro-/macro organism toxicity**

No data available.

**Chronical toxicity**

Based on available data, the classification criteria are not met.

**Persistence and degradability**

| Product / Sub-<br>stance name<br>CAS / EC no. | Type of test                | Duration | Result  | Exposure route    | Degradation | Method /<br>Guideline |
|-----------------------------------------------|-----------------------------|----------|---------|-------------------|-------------|-----------------------|
| TRW Mounting<br>Fluid<br>-                    | Primary biode-<br>gradation | 28 d     | >= 60 % | Activated sludge. | >= 60 %     | OECD 301F             |

**Bioaccumulative potential**

No data available.

**Mobility in soil**

**Mobility**

No data available.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment**

Not applicable.

**Endocrine disrupting properties**

Not applicable.

**Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

**Disposal methods**

**Disposal considerations**

The product should not be allowed to enter drains, water courses or the soil.



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**Packaging**

Packaging that is not properly emptied must be disposed of as the unused product. Dispose of waste product or used containers according to local regulations.

**SECTION 14: Transport information**

**UN number**

Not regulated.

**UN proper shipping name**

**ADR / RID / ADN proper shipping name**

Not regulated.

**Transport hazard class(es)**

**Label**

Not regulated.

**ADR / RID Class**

Not regulated.

**ADR / RID Classification code**

Not regulated.

**ADR / RID hazard identification number**

Not regulated.

**IMDG Class**

Not regulated.

**IATA Class**

Not regulated.

**ADN Class**

Not regulated.

**ADN Class Code**

Not regulated.

**Packing group**

Not regulated.

**Environmental hazards**

Not regulated.



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**IMDG Marine Pollutant**

Not regulated.

**Special precautions for user**

Not applicable.

**Transport in bulk according to IMO instruments**

Not applicable for product as supplied.

## SECTION 15: Regulatory information

**Safety, health and environmental regulations specific for the product in question**

**National regulations**

Montreal Protocol: Not applicable.

Rotterdam Convention on Prior Informed Consent (PIC): Not applicable. Stockholm Convention on Persistent Organic Pollutants (POP): Not applicable.

**Chemical safety assessment**

No Chemical Safety Assessment has been carried out.



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## SECTION 16: Other information

### **Abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen-cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - Interna-tional Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popula-tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - Interna-tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-fect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-tat-ive) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parlia-ment and of the Council concerning the Registration, Evaluation, Authorisation and Re-striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative.



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## **Other**

### **Additional information**

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