



TRW Mounting Fluid

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 Services, LLC

Address

ZF Services Region North

America Headquarters

777 Hickory Hill Drive

Vernon Hills

60061 Illinois

USA

Telephone

+1 847 478 6868

Email

msds.zf-aftermarket@zf.com

Contact person

Global Division B Product Compliance Mgmt. System (BWC)

Emergency phone number

1-800-222-1222

Available outside office hours

Yes



TRW Mounting Fluid

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.

Eye contact

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



TRW Mounting Fluid

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.

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.



TRW Mounting Fluid

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.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits

Occupational exposure limits: See below OEL table.

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

National occupational exposure limits



TRW Mounting Fluid

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Source	Remark	Year
Castor oil	8001-79-4 -	- / 10	NIOSH REL (2013-10-08)	TWA (mist - total)	2013
Castor oil	8001-79-4 -	- / 5	NIOSH REL (2013-10-08)	TWA (mist - respirable)	2013

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine (-/-)	DNEL	Chronic (long term) Inhalation	49.3 mg/m ³	Workers	Systemic
bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine (-/-)	DNEL	Chronic (long term) 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



TRW Mounting Fluid

Thermal hazards

Not required.

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.



TRW Mounting Fluid

Decomposition temperature

No data available.

pH

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

Kinematic viscosity

~ 115 mm²/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/cm³

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



TRW Mounting Fluid

Oxidising properties

No data available.

VOC %

No data available.

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.



TRW Mounting Fluid

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.

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.



TRW Mounting Fluid

Soil

No data available.

Acute fish toxicity

No data available.

Acute algae toxicity

No data available.

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- stance name CAS / EC no.	Type of test	Duration	Result	Exposure route	Degradation	Method / Guideline
TRW Mounting Fluid -	Primary biode- 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.



TRW Mounting Fluid

Other adverse effects

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Other

Additional ecological information: No information on ecology is available

SECTION 13: Disposal considerations

Disposal methods

Disposal considerations

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

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.

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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.



TRW Mounting Fluid

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.

IMDG Marine Pollutant

Not regulated.

Special precautions for user

Not applicable.

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Other

49 CFR: Not regulated as a dangerous good



TRW Mounting Fluid

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.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity: This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards No SARA Hazards

SARA 313' : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA list: No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements.

Chemical safety assessment

No Chemical Safety Assessment has been carried out.



SAFETY DATA SHEET

According to Regulation (US HCS) 29 CFR
1910.1200

TRW Mounting Fluid

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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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1910.1200

TRW Mounting Fluid

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Other

Additional information

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