

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 , as amended by UK REACH Regulations SI 2019/758

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

1.1 Product identifier

Product name: TCMATIC EDF-2

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

Identified uses: Lubricant

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier AUTOMOCION SOSTENIBLE T+C, S.L.
Polígono comarca 2, calle B nave 5
31191 Esquiroz de Galar, Navarra

Telephone: +34 948 854 079

Contact Person: AUTOMOCION SOSTENIBLE. Seguridad de Producto

E-mail: info@tcmatic.com

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1.4 Emergency telephone number: +34 948 854 079

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation GB-CLP.

Classification according to GB-CLP.

Health Hazards

Skin sensitizer Category 1 H317: May cause an allergic skin reaction.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Product name: TCMATIC EDF-2

Contains: Base oil, low viscous mineral oil



Signal Words: Warning

Hazard Statement(s): H317: May cause an allergic skin reaction.

Precautionary Statements

Prevention: P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

Supplemental label information EUH208: Contains: pyrrolidine-2,5-dione derivative. May produce an allergic reaction.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture containing severely refined base oils and additives.

Chemical name	Identifier	Concentration *	UK-REACH Registration No.	Notes
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	EINECS: 265-157-1	20,00% - <50,00%		
Base oil, low viscous	EINECS: 265-158-7	20,00% - <50,00%		
Base oil, low viscous	EINECS: 276-737-9	1,00% - <10,00%		
Alkyl thio phosphite	EC: 424-820-7	0,25% - <1,00%		
pyrrolidine-2,5-dione derivative	EINECS: 264-637-8	0,10% - <1,00%		
ethoxylated amine	EINECS: 246-807-3	0,01% - <0,10%		
carboxylic acid anhydride	EINECS: 203-571-6	0,001% - <0,10%		

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

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Classification

Chemical name	Identifier	Classification	
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	EINECS: 265-157-1	GBCLP:	Asp. Tox. 1;H304
Base oil, low viscous	EINECS: 265-158-7	GBCLP:	Asp. Tox. 1;H304
Base oil, low viscous	EINECS: 276-737-9	GBCLP:	Asp. Tox. 1;H304
Alkyl thio phosphite	EC: 424-820-7	GBCLP:	Skin Corr. 1B;H314, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Acute Tox. 4;H312, Eye Dam. 1;H318; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10
pyrrolidine-2,5-dione derivative	EINECS: 264-637-8	GBCLP:	Skin Sens. 1B;H317, Aquatic Chronic 3;H412
ethoxylated amine	EINECS: 246-807-3	GBCLP:	Acute Tox. 4;H302, Skin Corr. 1B;H314, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Eye Dam. 1;H318; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1
carboxylic acid anhydride	EINECS: 203-571-6	GBCLP:	Acute Tox. 4;H302, STOT RE 1;H372, Skin Corr. 1B;H314, Eye Dam. 1;H318, Resp. Sens. 1;H334, Skin Sens. 1A;H317, STOT RE 2;H373 EUH071

GB-CLP

specific concentration limit

Chemical name	Identifier	specific concentration limit	Hazard class	Hazard Category	Hazard statements
carboxylic acid anhydride	EINECS: 203-571-6	>= 0,001 %	Skin sensitizer	1A	H317

For the wording of the listed hazard statements refer to section 16.

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Nota L/ Nota N of Annex VI of Regulation GB-CLP.

SECTION 4: First aid measures

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

Ingestion: Rinse mouth thoroughly.

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4.2 Most important symptoms and effects, both acute and delayed: Suspected to cause hypersensitivity and allergy.

4.3 Indication of any immediate medical attention and special treatment needed Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

Unsuitable extinguishing media: Water with a full water jet.

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire-fighting procedures: Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. In case of spills, beware of slippery floors and surfaces.
- 6.2 Environmental Precautions:** Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.
- 6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.
- 6.4 Reference to other sections:** See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Prevent formation of aerosols. Observe good industrial hygiene practices. Provide adequate ventilation.
- 7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point.
- 7.3 Specific end use(s):** Not applicable
- Storage Class:** 10, Combustible liquids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
carboxylic acid anhydride	STEL	3 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)
carboxylic acid anhydride	TWA	1 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

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8.2 Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information:

Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

Eye/face protection:

Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.

Skin protection

Hand Protection:

Material: Nitrile butyl rubber (NBR).
Min. Breakthrough time: ≥ 480 min
Recommended thickness of the material: $\geq 0,38$ mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Other:

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

Respiratory Protection:

Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

Thermal hazards:

Not known.

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls:

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Yellow
Odor:	Characteristic

Product name: TCMATIC EDF-2

pH:	substance/mixture is non-soluble (in water)
Freezing point:	not determined
Boiling Point:	not determined
Flash Point:	190 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	not determined
Flammability Limit - Upper (%)-:	Not applicable for mixtures
Flammability Limit - Lower (%)-:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Relative vapor density:	Not applicable for mixtures
Density:	0,85 g/cm ³ (15,00 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	not determined
Decomposition Temperature:	not determined
Kinematic viscosity:	22,5 mm ² /s (40,00 °C)
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
Particle characteristics:	Not applicable
9.2 Other information	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical Stability:	Stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Stable under normal use conditions.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	May cause an allergic skin reaction.
Eye contact:	No data available.

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11.1 Information on toxicological effects

Acute toxicity

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Base oil, low viscous LD 50 (Rat): > 5.001 mg/kg (OECD 401)

ethoxylated amine LD 50 (Rat): 1.350 mg/kg

carboxylic acid anhydride LD 50 (Rat): 1.090 mg/kg

Dermal

Product: ATEmix: 63.257 mg/kg

Specified substance(s)

Base oil, low viscous LD 50 (Rabbit): > 5.000 mg/kg (OECD 402)

Alkyl thio phosphite LD 50 (Rat): > 501 mg/kg

carboxylic acid anhydride LD 50 (Rabbit): 2.620 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Base oil, low viscous LC 50 (Rat, 4 h): > 5,53 mg/l
Dust and mist

Skin Corrosion/Irritation:

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

Serious Eye Damage/Eye Irritation:

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

Respiratory or Skin Sensitization:

Product: Skin sensitizer: Based on available data, the classification criteria are met.
Respiratory sensitizer: Based on available data, the classification criteria are not met.

Specified substance(s)

pyrrolidine-2,5-dione derivative, OECD 406-1 (Guinea Pig)
May cause sensitization by skin contact.

Germ Cell Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific Target Organ Toxicity - Single Exposure Specific

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

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

Target Organ Toxicity - Repeated Exposure Aspiration

Hazard

Other adverse effects: No data available.

SECTION 12: Ecological information

General information: Not applicable

12.1 Toxicity

Acute toxicity

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

Fish

Specified substance(s)

Base oil, low viscous	LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)
Alkyl thio phosphite	LC 50 (Fish, 96 h): 1,5 mg/l (OECD 203)
pyrrolidine-2,5-dione derivative	LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)
ethoxylated amine	LC 50 (Fish, 96 h): 0,1 mg/l (OECD 203)

Aquatic Invertebrates

Specified substance(s)

Base oil, low viscous	EL50 (Water Flea, 48 h): > 10.000 mg/l
Alkyl thio phosphite	EC 50 (Water Flea, 48 h): 0,09 mg/l (OECD 202)
pyrrolidine-2,5-dione derivative	EC 50 (Water Flea, 48 h): 73,4 mg/l (OECD 202)
ethoxylated amine	EC 50 (Water Flea, 48 h): 0,043 mg/l (OECD 202)

Chronic Toxicity

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

Fish

Specified substance(s)

Base oil, low viscous	NOEL (Fish, 14 d): 1.000 mg/l
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Aquatic Invertebrates

Specified substance(s)

Base oil, low viscous	NOEC (Water Flea, 21 d): 10 mg/l (OECD 211)
Alkyl thio phosphite	NOEC (Water Flea, 21 d): 0,14 mg/l

Toxicity to Aquatic Plants Specified

Product name: TCMATIC EDF-2

substance(s)

Base oil, low viscous	NOEC (Alga, 72 h): > 100 mg/l (OECD 201)
Alkyl thio phosphite	EC 50 (Alga, 72 h): 0,31 mg/l
pyrrolidine-2,5-dione derivative	ErC50 (Alga, 72 h): > 100 mg/l (OECD 201)
ethoxylated amine	EC 50 (Alga, 72 h): 0,0867 mg/l (OECD 201)

12.1 Persistence and Degradability

Biodegradation

12.2 Bioaccumulative potential

Product: Not applicable for mixtures

12.3 Mobility in soil:

Product: Not applicable for mixtures

12.5 Results of PBT and vPvB assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects:

Experimental data has shown that the concentration of the potentially aquatic toxic components present in this product is not harmful to aquatic organisms.

Water Hazard Class (WGK):

WGK 1: slightly water-endangering.

Product name: TCMATIC EDF-2

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.

List of Waste (LoW) Codes

13 02 05*: mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information

ADR/RID

14.1 UN number or ID number: UN 3082
14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Alkyl thio phosphite)
14.3 Transport Hazard Class(es)
Class: 9
Label(s): 9
Hazard No. (ADR): 90
Tunnel restriction code: (-)
14.4 Packing Group: III
14.5 Environmental hazards: Dangerous for the environment
14.6 Special precautions for user: -

IMDG

14.1 UN number or ID number: UN 3082
14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Alkyl thio phosphite)
14.3 Transport Hazard Class(es)
Class: 9
Label(s): 9
EmS No.: F-A, S-F
14.3 Packing Group: III
14.5 Environmental hazards: Marine pollutant
14.6 Special precautions for user: -

IATA

14.1 UN number or ID number: UN 3082
14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Alkyl thio phosphite)
14.3 Transport Hazard Class(es):
Class: 9
Label(s): 9MI
14.4 Packing Group: III
14.5 Environmental hazards: Dangerous for the environment
14.6 Special precautions for user: -

Product name: TCMATIC EDF-2

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: GB

Regulations

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019:

none

The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020:

none

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

DIRECTIVE Control of Major Accident Hazards Regulations 2015:

Not applicable

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

EUH071	Corrosive to the respiratory tract.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Other information: The classification complies with the current GB lists; however, it has been supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: On the basis of test data; Calculation Method; Bridging Principle "Substantially similar mixtures"; Expert Judgement

Revision Date: 27.02.2022

Product name: TCMATIC EDF-2

Disclaimer:

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.