

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: VAG-529

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

E-mail: info@tcmatic.com

1.4 Emergency telephone number: +34 948 854 079

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous, but needs to be labelled according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended. Hazard

summary

Physical Hazards: No data available.

2.2 Label Elements

EUH208: Contains pyrrolidine-2,5-dione derivative, carboxylic acid anhy- dride.
May produce an allergic reaction.

EUH210: Safety data sheet available on request.

2.3 Information on 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.

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture of synthetic base oils with additives.

| Chemical name | Identifier | Concentration * | REACH Registration No. | Notes |
|----------------------------------|-------------------|-------------------|------------------------|-------|
| Hydrocarbons, low viscous | EC: 500-183-1 | 50,00% - <100,00% | 01-2119486452-34 | |
| Hydrocarbons, low viscous | EC: 500-228-5 | 10,00% - <20,00% | 01-2119493069-28 | |
| Base oil, low viscous | EINECS: 265-158-7 | 1,00% - <10,00% | 01-2119487077-29 | |
| alkyl imidazoline | EC: 701-204-9 | 1,00% - <5,00% | 01-2119960832-33 | |
| pyrrolidine-2,5-dione derivative | EINECS: 264-637-8 | 0,10% - <1,00% | 01-2120750265-57 | |
| carboxylic acid anhydride | EINECS: 203-571-6 | 0,0001% - <0,001% | 01-2119472428-31 | |

* 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.

Classification

| Chemical name | Identifier | Classification |
|----------------------------------|-------------------|---|
| Hydrocarbons, low viscous | EC: 500-183-1 | CLP: Asp. Tox. 1;H304 |
| Hydrocarbons, low viscous | EC: 500-228-5 | CLP: Asp. Tox. 1;H304, Acute Tox. 4;H332 |
| Base oil, low viscous | EINECS: 265-158-7 | CLP: Asp. Tox. 1;H304 |
| alkyl imidazoline | EC: 701-204-9 | CLP: Skin Irrit. 2;H315, Eye Irrit. 2;H319 |
| pyrrolidine-2,5-dione derivative | EINECS: 264-637-8 | CLP: Skin Sens. 1B;H317, Aquatic Chronic 3;H412 |
| carboxylic acid anhydride | EINECS: 203-571-6 | CLP: Acute Tox. 4;H302, STOT RE 1;H372, Skin Corr. 1B;H314, Eye Dam. 1;H318, Resp. Sens. 1;H334, Skin Sens. 1A;H317 EUH071 |

CLP: Regulation No. 1272/2008.

specific concentration limit

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| 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 EC 1272/2008."

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: Wash with soap and water.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed: Get medical attention if symptoms occur.

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.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

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:**

Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. 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):

No data available.

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 |
|--|------|-----------------------|---|
| Hydrocarbons, low viscous - Respirable fraction. | MAK | 5 mg/m ³ | Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as amended (2011) |

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: | Pale yellow |
| Odor: | Characteristic |
| pH: | substance/mixture is non-soluble (in water) |
| Freezing point: | not determined |
| Boiling Point: | not determined |
| Flash Point: | 205 °C |
| Flammability (solid, gas): | not determined |
| Explosion Limit - Upper (%): | Not applicable for mixtures |
| Explosion Limit - Lower (%): | Not applicable for mixtures |
| Vapor pressure: | Not applicable for mixtures |
| Relative vapor density: | Not applicable for mixtures |
| Density: | 0,83 g/ml (15,00 °C) |
| Solubility(ies) | |

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| | |
|---|------------------------------------|
| Solubility in Water: | Insoluble in water |
| Solubility (other): | No data available. |
| Partition coefficient (n-octanol/water): | Not applicable for mixtures |
| Auto-ignition temperature: | not determined |
| Decomposition Temperature: | not determined |
| Kinematic viscosity: | 23,5 mm ² /s (40,00 °C) |
| 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
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity
Oral

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

Specified substance(s)

Hydrocarbons, low viscous LD 50 (Rat): > 5.000 mg/kg

Hydrocarbons, low viscous LD 50 (Rat): > 5.001 mg/kg

Base oil, low viscous LD 50 (Rat): > 5.000 mg/kg

alkyl imidazoline LD 50 (Rat): > 5.000 mg/kg (OECD 401)

carboxylic acid anhydride LD 50 (Rat): 1.090 mg/kg (OECD 401)

Dermal

Product: ATEmix: 102.244 mg/kg

Specified substance(s)

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

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

Inhalation

Product: ATEmix: 8,36 mg/l Dust and mist

Specified substance(s)

Hydrocarbons, low viscous

LC 50 (Rat, 4 h): > 5 mg/l Dust and mist

Hydrocarbons, low viscous

LC 50 (Rat, 4 h): 1,17 mg/l Dust and mist

Base oil, low viscous

LC 50 (Rat, 4 h): > 5,1 mg/l Dust and mist

Skin Corrosion/Irritation:**Product:**

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

Specified substance(s)

Base oil, low viscous

(Rabbit):
Not irritant.**Serious Eye Damage/Eye Irritation:****Product:**

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

Specified substance(s)

Base oil, low viscous

OECD 405 (Rabbit):
Not irritant.**Respiratory or Skin Sensitization:****Product:**

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

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

Specified substance(s)

Base oil, low viscous

No sensitizing effect (guinea pig); OECD 406

alkyl imidazoline

No sensitizing effect (guinea pig); OECD 406

pyrrolidine-2,5-dione derivative

, OECD 406-1 (Guinea Pig)
May cause sensitization by skin contact.

carboxylic acid anhydride

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.

Target Organ Toxicity - Repeated Exposure Aspiration**Product:**

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

Hazard**Product:**

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

11.2 Information on other hazards

Endocrine disrupting properties

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

Acute toxicity

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

Fish

Specified substance(s)

| | |
|----------------------------------|---|
| Hydrocarbons, low viscous | LC 50 (Fish, 96 h): > 750 mg/l |
| Hydrocarbons, low viscous | LC 50 (Fish, 96 h): > 1.000 mg/l |
| Base oil, low viscous | LL 50 (Fish, 96 h): > 100 mg/l |
| alkyl imidazoline | LC 50 (Fish, 96 h): > 1.000 mg/l |
| pyrrolidine-2,5-dione derivative | LC 50 (Fish, 96 h): > 100 mg/l (OECD 203) |
| carboxylic acid anhydride | LC 50 (Fish, 96 h): 75 mg/l |

Aquatic Invertebrates

Product:

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

Aquatic Invertebrates

Product:

Toxicity to Aquatic Plants Specified

substance(s)

| | |
|----------------------------------|---|
| Hydrocarbons, low viscous | EC 50 (Alga, 72 h): > 1.000 mg/l |
| Hydrocarbons, low viscous | EC 50 (Alga, 72 h): > 1.000 mg/l |
| Base oil, low viscous | NOEC (Alga, 72 h): > 100 mg/l |
| alkyl imidazoline | NOEC (Alga, 96 h): 23 mg/l |
| pyrrolidine-2,5-dione derivative | ErC50 (Alga, 72 h): > 100 mg/l (OECD 201) |
| carboxylic acid anhydride | ErC50 (Alga, 72 h): 74,35 mg/l (OECD 201) |

12.2 Persistence and Degradability

Product:

Revision Date: XX.XX.XXXX

Not applicable for mixtures

Biodegradation

Specified substance(s)

| | |
|---------------------------|--|
| Base oil, low viscous | 31 % (28 d, OECD 301F) |
| carboxylic acid anhydride | > 90 % (25 d, OECD 301B) Readily biodegradable |

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

12.4 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 Endocrine disrupting properties

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects: The classification of this product is based all or in part on test data.

Water Hazard Class (WGK): WGK 1: slightly water-endangering.

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.

European Waste Codes

13 02 06*: synthetic engine, gear and lubricating oils

SECTION 14: Transport information

ADR/RID

| | |
|---------------------------------|---------------------|
| 14.1 UN number or ID number: | — |
| 14.2 UN Proper Shipping Name: | — |
| 14.3 Transport Hazard Class(es) | |
| Class: | Non-dangerous goods |
| Label(s): | — |
| Hazard No. (ADR): | — |
| Tunnel restriction code: | — |
| 14.4 Packing Group: | — |

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- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

IMDG

- 14.1 UN number or ID number: —
- 14.2 UN Proper Shipping Name: —
- 14.3 Transport Hazard Class(es)
Class: Non-dangerous goods
Label(s): —
EmS No.: —
- 14.3 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

IATA

- 14.1 UN number or ID number: —
- 14.2 Proper Shipping Name: —
- 14.3 Transport Hazard Class(es)
Class: Non-dangerous goods
Label(s): —
- 14.4 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

14.7 Maritime transport in bulk according to IMO instruments: Not applicable.

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: EU
Regulations

EU. Regulation 2024/590/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

National Regulations

Water Hazard Class (WGK): WGK 1: slightly water-endangering.

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

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. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

Other information:

The classification complies with the current EU 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:

16.08.2024

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.