# tematic

# PDK-8

# 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: PDK-8

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

Identified uses: Gear oil

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier AUTOMOCIÓN SOSTENIBLE T+C, S.L.

Polígono comarca 2, calle B nave 5 31191 Esquiroz de Galar, Navarra

Telephone: +34 948 854 079

Contact Person: AUTOMOCIÓN SOSTENIBLE. Seguridad de Producto

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 been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

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

**Environmental Hazards** 

Chronic hazards to the aquatic Category 3 H412: Harmful to aquatic life with long lasting

environment effects.

**Hazard summary** 

Physical Hazards: No data available.

2.2 Label Elements

**Hazard Statement(s):** H412: Harmful to aquatic life with long lasting effects.



# **Precautionary Statements**

**Prevention:** P273: Avoid release to the environment.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

**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 *	REACH Registration No.	Notes
Hydrocarbons, low viscosity	EC: 500-183-1	50,00 - <100,00%	01-2119486452-34	
base oil, low viscous	EINECS: 276-738-4	20,00 - <50,00%	01-2119474889-13	
Alkyl amine	EC: 620-540-6	0,10 - <0,25%	01-2119510877-33	
prim. alkanolamine ether	EC: 939-485-7	0,01 - <0,10%	01-2119974116-35	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Classification

Chemical name	Identifier	Classi	Classification	
Hydrocarbons, low viscosity	EC: 500-183-1	CLP:	Asp. Tox. 1;H304	
base oil, low viscous	EINECS: 276-738-4	CLP:	Asp. Tox. 1;H304	
Alkyl amine	EC: 620-540-6	CLP:	Skin Corr. 1C;H314, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Acute Tox. 4;H302; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1	
prim. alkanolamine ether	EC: 939-485-7	CLP:	Acute Tox. 4;H302, Skin Corr. 1B;H314, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 100; M-Factor (aquatic chronic): 1	

CLP: Regulation No. 1272/2008.

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 Note L of Annex VI of Regulation EC 1272/2008."

# **SECTION 4: First aid measures**

**General:** Instantly remove any clothing soiled by the product.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



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.

4.2 Most important symptoms

and effects, both acute and

delayed:

Ingestion:

Rinse mouth thoroughly.

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 inaccordance 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:** Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Prevent from spreading (e.g. by binding or oil barriers).

Environmental manager must be informed of all major spillages. 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:



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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): Not applicable

Storage Class: 10, Combustible liquids

# SECTION 8: Exposure controls/personal protection

# 8.1 Control Parameters

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.

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 inhandling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling. Avoid contact with

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

goggles or face shield.



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**Skin protection** 

Hand Protection: Material: Nitrile-butadiene rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 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:liquidForm:liquidColor:Amber

Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: Not applicable

Freezing point: Not applicable for mixtures

**Boiling Point:**Value not relevant for classification

Flash Point:

> 200 °C (DIN EN ISO 2592)

Evaporation Rate:

Not applicable for mixtures

Flammability (solid, gas):

Value not relevant for classification

Vapor pressure:Not applicable for mixturesVapor density (air=1):Not applicable for mixtures

**Density:** 0,83 g/cm3 (20 °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:** Value not relevant for classification **Decomposition Temperature:** Value not relevant for classification

Kinematic viscosity: 25 mm2/s (40 °C)

Value not relevant for classification **Explosive properties:** Oxidizing properties: Value not relevant for classification

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 Stable under normal use conditions.

reactions:

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** Thermal decomposition or combustion may liberate carbon oxides and

Products: other toxic gases or vapors.

# SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

**Acute toxicity** 

Oral

**Product:** 

Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low

viscosity

LD 50 (Rat): > 5.000 mg/kg

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

LD 50 (Rat): 1.350 mg/kg (OECD 401) Alkyl amine

Dermal

**Product:** 

Not classified for acute toxicity based on available data.

Inhalation

**Product:** 

Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low

viscosity

LC 50 (Rat, 4 h): > 5 mg/l Dusts, mists and fumes



**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 not

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

Alkyl amine

No sensitizing effect (guinea pig); OECD 406

**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** 

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

**Specific Target Organ Toxicity - Repeated Exposure** 

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

**Aspiration Hazard** 

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

Other adverse effects: No data available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

**Acute toxicity** 

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

Fish

Specified substance(s)

Hydrocarbons, low

viscosity

LC 50 (Fish, 96 h): > 750 mg/l

base oil, low viscous LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)

Alkyl amine LC 50 (Fish, 96 h): 0,1 mg/l (OECD 203)



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Aquatic Invertebrates Specified substance(s)

Hydrocarbons, low

viscosity

EC 50 (Water Flea, 48 h): 190 mg/l

Alkyl amine EC 50 (Water Flea, 48 h): 0,043 mg/l (OECD 202)

**Chronic ToxicityProduct:** Based on available data, the classification criteria are met.

Fish

Specified substance(s)

base oil, low viscous NOEC (Fish, 14 d): > 1.000 mg/l

Aquatic Invertebrates Specified substance(s)

base oil, low viscous NOEC (Water Flea, 21 d): 10 mg/l (OECD 211)

Alkyl amine EC 10 (Water Flea, 21 d): 0,0107 mg/l (OECD 211)

Toxicity to Aquatic Plants Specified substance(s)

Hydrocarbons, low

viscosity

EC 50 (Alga, 72 h): > 1.000 mg/l

base oil, low viscous NOEC (Alga, 72 h): > 100 mg/l (OECD 201)

Alkyl amine EC 50 (Alga, 72 h): 0,0538 mg/l (OECD 201)

NOEC (Alga, 72 h): 0,0156 mg/l

12.2 Persistence and Degradability

Biodegradation

**Product:** Not applicable for mixtures

Specified substance(s)

Alkyl amine 63 % (28 d, OECD 301D) 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 Other adverse effects:

Water Hazard Class

(WGK):

Harmful to aquatic life with long lasting effects.

WGK 2: significantly water-endangering.



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# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

**European Waste Codes** 

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

# **SECTION 14: Transport information**

# ADR/RID

14.1 UN 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:
14.5 Environmental hazards:
14.6 Special precautions for user:

#### **ADN**

14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): –
14.3 Packing Group: –
14.5 Environmental hazards: –
14.6 Special precautions for user: –

# **IMDG**

14.1 UN 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: –



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**IATA** 

14.1 UN 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 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:

**EU Regulations** 

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

**15.2 Chemical safety** No Chemical Safety Assessment has been carried out.

assessment:

#### **SECTION 16: Other information**

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

#### Wording of the H-statements in section 2 and 3

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
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 EU lists; however, it has been

supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the

application of the conventional method.

**Revision Date:** 12.01.2021



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Disclaimer:

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