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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-7

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

Identified uses:Hydraulic/transmission fluidUses 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. Product safety

Telephone: +34 948 854 079
E-mail: info@tcmatic.com

1.4 Emergency telephone number: +34 948 854 079

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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.

Supplemental label information

EUH208: Contains: Triisobutyl phosphate. 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.

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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	20,00 - <50,00%	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	
Triisobutyl phosphate	EINECS: 204-798-3	0,10 - <1,00%		
Solvent Naphtha, low viscous	EINECS: 265-198-5	0,10 - <1,00%	01-2119463588-24	
hydroxyethyl-alkylamine	EINECS: 263-163-9	0,01 - <0,25%	01-2119957489-17	

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

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	
Triisobutyl phosphate	EINECS: 204-798-3	CLP:	Skin Sens. 1;H317	
Solvent Naphtha, low viscous	EINECS: 265-198-5	CLP:	Asp. Tox. 1;H304, STOT SE 3;H336, Carc. 2;H351, Aquatic Chronic 2;H411	
hydroxyethyl-alkylamine	EINECS: 263-163-9	CLP:	Acute Tox. 4;H302, Skin Corr. 1C;H314, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10	

CLP: Regulation No. 1272/2008.

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

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vPvB: very persistent and very bioaccumulative substance.

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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 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.

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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:

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

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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 inheading the chemicals or the mineral oil products.

be adhered to inhandling the chemicals or the mineral oil products.

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

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid

Color: No data available.

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: 220 °C

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)—:

Flammability Limit - Lower (%)—:

Vapor pressure:

Vapor density (air=1):

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

Density: 0,84 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: 35 mm2/s (40 °C)

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

9.2 Other informationNo 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.

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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

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

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

hydroxyethyl-alkylamine LD 50 (Rat): 1.300 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Solvent Naphtha, low

viscous

LD 50 (Rabbit): > 31.600 mg/kg

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.

Specified substance(s)

hydroxyethyl-alkylamine

OECD 404 (Rabbit):

Corrosive.

Serious Eye Damage/Eye Irritation:

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

Specified substance(s)

hydroxyethyl-alkylamine OECD 405 (Rabbit):

Risk of serious damage to eyes.

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.

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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.

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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 - 1 mg/l (OECD 203)

hydroxyethyl-alkylamine LC 50 (Zebra Fish, 96 h): 0,1 mg/l (OECD 203)

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): > 0,01 - 0,1 mg/l (OECD 202)

Solvent Naphtha, low

viscous

EC 50 (Water Flea, 48 h): 3 - 10 mg/l

hydroxyethyl-alkylamine EC 50 (Water Flea, 48 h): > 0,01 - 0,1 mg/l

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): > 0,001 - 0,01 mg/l (OECD 211)

hydroxyethyl-alkylamine EC 10 (Water Flea, 21 d): > 0,01 - 0,1 mg/l (OECD 211)

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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): > 0.01 - 0.1 mg/l (OECD 201)

hydroxyethyl-alkylamine EC 50 (Alga, 72 h): > 0.01 - 0.1 mg/l (OECD 201)

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

Alkyl amine (OECD 301D) Readily biodegradable

hydroxyethyl-alkylamine > 60 % (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: Harmful to aquatic life with long lasting effects.

Water Hazard Class

(WGK):

WGK 2: significantly water-endangering.

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

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SECTION 14: Transport information

ADR/RID	
14.1 UN Number:	_
14.2 UN Proper Shipping Name:	_
14.3 Transport Hazard Class(es)	Nan danaraya waada
Class: Label(s):	Non-dangerous goods
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:	_
14.2 ON Proper Snipping 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:	_
IATA	
IATA 14.1 UN Number:	_
14.1 UN Number:	_ _
	_ _
14.1 UN Number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es): Class:	- - Non-dangerous goods
14.1 UN Number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es):	– Non-dangerous goods –
14.1 UN Number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es): Class:	- Non-dangerous goods -
14.1 UN Number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es): Class: Label(s):	- Non-dangerous goods - -

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

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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 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

y OI III C 11-31a	terrierits 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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	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: 13.12.201

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.

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