Safety Data Sheet
PAKELO GLOBAL TRANSMISS. TS SAE 75W-90
Safety Data Sheet dated: 09/01/2023 - version 2

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

1.1. Product identifier

Mixture identification:

Trade name: PAKELO GLOBAL TRANSMISS. TS SAE 75W-90

Trade code: 4192.23

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

Recommended use: Lubricant

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: Pakelo Motor Oil Srl
Viale delle Fontanelle 54
IT-37047 San Bonifacio (VR)
+39 045 6101643
schede.sicurezza@pakelo.it

Responsable: N.A.

1.4. Emergency telephone number

Pakelo Motor Oil Srl - +39 0456101643 - San Bonifacio (VR) Italy
(Mon-Fri 8 - 12 / 14 - 18)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Special Provisions:

EUH210 Safety data sheet available on request.

Contains

Polysulfides, di-tert-butyl	May produce an allergic reaction.
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, c12-14-tert-alkyl	May produce an allergic reaction.
Magnesium metaborate	May produce an allergic reaction.
2-ethylhexyl methacrylate	May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

Restricted to professional users.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: PAKELO GLOBAL TRANSMISS. TS SAE 75W-90

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
25-50 %	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified	CAS:72623-87-1 EC:276-738-4 Index:649-483-00-5	DECLL(*)	01- 2119474889-13
10-25 %	1-decene homopolymer hydrogenated	CAS:68037-01-4 EC:500-183-1	Not classified as hazardous	01-2119486452-34
3-5 %	Polysulfides, di-tert-butyl	EC:273-103-3	Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Specific Concentration Limits: C ≥ 46%: Skin Sens. 1B H317	01-2119540515-43
1.5-2 %	Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, c12-14- tert-alkyl	EC:931-384-6	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 Specific Concentration Limits: C ≥ 9.39%: Skin Sens. 1B H317 C ≥ 50.01%: Eye Irrit. 2 H319	01-2119493620-38
0.25-0.5 %	Magnesium metaborate	CAS:13703-82-7 EC:237-235-5	Skin Sens. 1B, H317 Specific Concentration Limits: C ≥ 15%: Skin Sens. 1B H317	01-2120769073- 53
0.25-0.5 %	O,O,O-Triphenyl phosphorothioate	CAS:597-82-0 EC:209-909-9	Repr. 2, H361fd	01-2119979545-21
0.2-0.25 %	2-ethylhexyl methacrylate	EC:211-708-6	STOT SE 3, H335 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Specific Concentration Limits: C ≥ 10%: STOT SE 3 H335	01-2119490166-35

(*)DECLL Substance classified in accordance with Note L, Annex VI of EC Regulation (EC) 1272/2008.

The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

The symptoms and the most important effects are in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Contact poison center or doctor immediately if large quantities have been ingested or inhaled.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

Do not use direct water jets. Use water jets just to cool down surfaces exposed to fire.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Occupational Exposure Limit
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified CAS: 72623-87-1	ACGIH	Long Term: 5 mg/m3; Short Term: 10 mg/m3
1-decene homopolymer hydrogenated CAS: 68037-01-4	ACGIH	Long Term: 5 mg/m3; Short Term: 10 mg/m3

Predicted No Effect Concentration (PNEC) values

Polysulfides, di-tert-butyl	Exposure Route: Soil; PNEC Limit: 0.018 mg/kg
	Exposure Route: Water; PNEC Limit: 0.024 mg/m3

Derived No Effect Level (DNEL) values

Polysulfides, di-tert-butyl	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 4.67 mg/kg; Consumer: 1.67 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 3.29 mg/m3; Consumer: 0.58 mg/m3

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

Not necessary under normal conditions of use. Use masks with filters for organic vapors if exposure limits are exceeded.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid

Color: Amber

Odour: N.A.
pH: N.A.
Kinematic viscosity: N.A.
Melting point / freezing point: -40.00 °C Notes: approx (ASTM D97)
Initial boiling point and boiling range: N.A.
Flash point: > 190°C (ASTM D92)
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 0.87 kg/l (15°C - ASTM D1298)
Solubility in water: Insoluble
Solubility in oil: Soluble
Partition coefficient (n-octanol/water): N.A.
Nanoforms dispersion stability
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity: 113.00 cSt (40°C - ASTM D445)
Flammability: N.A.
Volatile Organic compounds - VOCs = N.A.
Particle characteristics:
Particle size: N.A.

9.2. Other information

Miscibility: N.A.
Conductivity: N.A.
Evaporation rate: N.A. No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological Information of the Preparation

a) acute toxicity	not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	not classified

	Based on available data, the classification criteria are not met
f) carcinogenicity	not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
		LD50 Skin Rabbit > 2000 mg/kg
		LC50 Inhalation Rat > 5.53 mg/kg 4h
1-decene homopolymer hydrogenated	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
		LC50 Inhalation Rat > 5.2 mg/l 4h
		LD50 Skin Rabbit > 2000 mg/kg
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, c12-14- tert-alkyl	a) acute toxicity	LD50 Oral Rat 2000 mg/kg

11.2 Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified	CAS: 72623-87-1 - EINECS: 276-738-4 - INDEX: 649-483-00-5	a) Aquatic acute toxicity : LL50 Fish > 100 mg/L
1-decene homopolymer hydrogenated	CAS: 68037-01-4 - EINECS: 500-183-1	a) Aquatic acute toxicity : LL50 Fish > 1000 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 48h
		e) Plant toxicity : NOELR Algae 1000 mg/L 72h
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, c12-14- tert-alkyl	EINECS: 931-384-6	e) Plant toxicity : EL50 Algae Selenastrum capricornutum > 15 mg/L 96h
		e) Plant toxicity : EL50 Daphnia Daphnia magna 91.4 mg/L 48h
		a) Aquatic acute toxicity : LL50 Fish Oncorhynchus mykiss 24 mg/L 96h

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 Other adverse effects

No PBT or vPvB substances present in concentration >= 0.1%

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None

Restrictions related to the substances contained: 28

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

German Water Hazard Class.

Class 3: extremely hazardous.

SVHC Substances:

No data available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: KAFH
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

*** Sheet model entirely changed in compliance to regulatory update.**