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

1.1. Product identifier

Mixture identification:

Trade name: GPL-PAG-100

Trade code: 141-100

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

Recommended use: Gas Compressor Oil

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: Next Lubricants BV
Winkler Prinsstraat 21
9403 AZ, Assen
The Netherlands
+31 592 372299

Responsable: info@nextlubricants.nl

1.4. Emergency telephone number

National Poison Control Centre - +31 (0) 30 2748888 - Only for use by professional rescuers in case of emergency

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Special Provisions:

EUH210 Safety data sheet available on request.

Contains

3-{[bis(2-methylpropoxy)(sulfanylidene)-lambda5-phosphanyl]sulfanyl}-2-methylpro — May produce an allergic reaction.

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

None.

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: GPL-PAG-100

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

Qty	Name	Ident. Numb.	Classification	Registration Number
1-2.5 %	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	CAS:68411-46-1 EC:270-128-1	Repr. 2, H361f; Aquatic Chronic 3, H412	01-2119491299-23
0.1-0.25 %	3-{[bis(2-methylpropoxy)(sulfanylidene)-lambda5-phosphanyl]sulfanyl}-2-methylpro	CAS:268567-32-4 EC:434-070-2	Eye Dam. 1, H318; Skin Sens. 1B, H317	01-2119658068-31

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

N.A.

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

N.A.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons:

Water.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

Carbon / Sulfur and Nitrogen Oxides

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

For non emergency personnel:

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.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Do not eat or drink while working.

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)

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)

3-{[bis(2-methylpropoxy)(sulfanylidene)-lambda5-phosphanyl]sulfanyl}-2-methylpro

CAS: 268567-32-4 EU Long Term: 7 mg/m3 - 5 ppm; Short Term: 14 mg/m3 - 10 ppm
Behaviour Indicative

Predicted No Effect Concentration (PNEC) values

Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene

CAS: 68411-46-1 Exposure Route: Fresh Water; PNEC Limit: 0.0338 mg/l

Exposure Route: Marine water; PNEC Limit: 0.0038 mg/l

Exposure Route: Intermittent release; PNEC Limit: 0.51 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.446 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0.0446 mg/kg

Exposure Route: Soil (agricultural); PNEC Limit: 2.59 mg/kg

Exposure Route: STP; PNEC Limit: 10 mg/l

3-{[bis(2-methylpropoxy)(sulfanylidene)-lambda5-phosphanyl]sulfanyl}-2-methylpro

CAS: 268567-32-4 Exposure Route: Fresh Water; PNEC Limit: 0.72 mg/l

Exposure Route: Marine water; PNEC Limit: 0.0072 mg/l

Exposure Route: Intermittent release; PNEC Limit: 0.38 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 23 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 2.3 mg/kg

Exposure Route: Soil (agricultural); PNEC Limit: 4.54 mg/kg

Exposure Route: STP; PNEC Limit: 10 mg/l

Derived No Effect Level (DNEL) values

Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene

CAS: 68411-46-1 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 0.62 mg/kg; Consumer: 0.31 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 4.37 mg/m3; Consumer: 1.09 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 0.31 mg/kg

3-{[bis(2-methylpropoxy)(sulfanylidene)-lambda5-phosphanyl]sulfanyl}-2-methylpro

CAS: 268567-32-4 Exposure Route: Human Inhalation; Exposure Frequency: Long and Short-term exposure - systemic effects
Worker Professional: 4.4 mg/m3; Consumer: 1.1 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 1.25 mg/m3; Consumer: 0.6 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 0.6 mg/kg

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:

N.A.

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

Appearance and colour: Liquid light yellow

Odour: characteristic

pH: N.A.

Kinematic viscosity: N.A.

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: N.A.

Flash point: 230 °C (446 °F)

Lower and upper explosion limit: N.A.

Relative vapour density: N.A.

Vapour pressure: N.A.

Density and/or relative density: 0,99 g/ml

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient n-octanol/water (log value): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = N.A.

Particle characteristics:

Particle size: N.A.

9.2. Other information

Viscosity: 105,00 cSt

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:

Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene

CAS: 68411-46-1	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
		LD50 Skin Rat > 2000 mg/kg
	b) skin corrosion/irritation	Skin Irritant Skin Rabbit Negative
	c) serious eye damage/irritation	Eye Irritant Skin Rabbit Negative

3-{[bis(2-methylpropoxy)(sulfanylidene)-lambda5-phosphanyl]sulfanyl}-2-methylpro

CAS: 268567-32-4	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg
		LD50 Skin Rat > 2000 mg/kg
	b) skin corrosion/irritation	Eye Irritant Positive
	c) serious eye damage/irritation	Eye Corrosive Positive
	d) respiratory or skin sensitisation	Skin Sensitization Possible
	e) germ cell mutagenicity	Mutagenesis Negative
	g) reproductive toxicity	Reproductive Toxicity Negative - Based on available data, the classification criteria are not met

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

Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene

CAS: 68411-46-1	a) Aquatic acute toxicity:	LC50 Fish > 100 mg/L 96h
	a) Aquatic acute toxicity:	EC50 Daphnia 51 mg/L 48h
	a) Aquatic acute toxicity:	EC50 Algae > 100 mg/L 72h

a) Aquatic acute toxicity: No observed effect concentration Algae >= 10 mg/L 72h

c) Bacteria toxicity: EC50 Activated sludge > 100 mg/L 3

b) Aquatic chronic toxicity: EC10 Algae 1.69 mg/L 504

d) Terrestrial toxicity: EC10 Algae 259 mg/kg 1344

3-{[bis(2-methylpropoxy)(sulfanylidene)-lambda5-phosphanyl]sulfanyl}-2-methylpro

CAS: 268567-32-4 a) Aquatic acute toxicity: LC50 Fish = 38 mg/L 96h

a) Aquatic acute toxicity: EC50 Daphnia = 53 mg/L 48h

a) Aquatic acute toxicity: EC10 Algae = 51 mg/L 40

a) Aquatic acute toxicity: EC50 Algae > 100 mg/L 72h

c) Bacteria toxicity: No observed effect concentration Activated sludge > 100 mg/L 3

b) Aquatic chronic toxicity: No observed effect concentration Daphnia 3.6 mg/L 1344

12.2. Persistence and degradability

3-{[bis(2-methylpropoxy)(sulfanylidene)-lambda5-phosphanyl]sulfanyl}-2-methylpro

CAS: 268567-32-4 Non-readily biodegradable Test: OECD 301B; Value: 10

12.3. Bioaccumulative potential

Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene

CAS: 68411-46-1 Bioaccumulative Test: BCF - Bioconcentrantion factor; Duration: 42d; Value: 1730

3-{[bis(2-methylpropoxy)(sulfanylidene)-lambda5-phosphanyl]sulfanyl}-2-methylpro

CAS: 268567-32-4 Not bioaccumulative

Bioaccumulative Test: BCF - Bioconcentrantion factor; Duration: 28 d; Value: 10

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 Other adverse effects

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

N.A.

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. 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)
Regulation (EU) n. 2020/878

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: None.

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

None

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

No substances listed

German Water Hazard Class.

N.A.

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

15.2. Chemical safety assessment

No exposure scenarios are available for the substances listed in section 3.2

SECTION 16: Other information

Code	Description
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.7/2	Repr. 2	Reproductive toxicity, 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.

Paragraphs modified from the previous revision:

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