



TECPO

Motorspülung_EN

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

1.1. Product identifier

Trade name

TECPO Motorspülung_EN

Article No.

300845

UFI code

CW5V-RUHW-8004-8WYT

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

Relevant identified uses

Additive for automotive fuel systems

Not suitable for use in

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Supplier

TECPO GmbH

Address

Dreherstraße 16-20

42899 Remscheid

Germany

Telephone

+49 2191 951 3305

Email

info@tecpo.de

Fax

+49 2191 951 33044

Web site

www.tecpo.de

1.4. Emergency telephone number

Poison center/Additional emergency number

+49 (0) 89 19240 - Poison Emergency Call Munich

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Skin irritation, hazard category 2

Eye irritation, hazard category 2

Acute toxicity, inhalation, hazard category 4

Hazard statements

H315, H319, H332

Description

The product is classified and labeled according to the CLP regulation.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Precautionary statements

P102 Keep out of reach of children.

P261 Avoid breathing Mist/vapor/aerosol.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water/.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor. if you feel unwell.

P362 + P364 Take off contaminated clothing and wash it before reuse.



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More information

Hazard-determining components of labeling:
Butylglykol

Ingredients according to detergent regulation EC 648/2004:
aliphatic hydrocarbons : >=30 %
anionic surfactants : >=5 - <15 %

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

The product does not contain any substances with endocrine-disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Hydrocarbons, C10-C13, N-alkanes, isoalkanes, cyclic, < 2% aromatics	- 918-481-9 - 649-327-00-6	10 - <50%	Asp. Tox. 1	H304, EUH066 - -	-
Butylglycol	111-76-2 203-905-0 01-2116475108-36 603-014-00-0	10 - <25%	Acute Tox. 4 - oral, Skin Irrit. 2, Eye Irrit. 2, Acute Tox. 3 - inhalation	H302, H315, H319, H331 - -	LD50 oral: ATE=1 200 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0 265-169-7 01-2119471299-27 649-474-00-6	0 - <10%	Asp. Tox. 1	H304 - -	-
Long-chain alkylated calcium aryl sulfonate	90194-27-7 290-636-7 - -	0 - <10%	Eye Irrit. 2	H319 - -	-
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts	68442-22-8 270-478-5 - -	≥1 - <2,5%	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2	H315, H318, H411 - -	-

Product based on

Mixture of the substances listed below with additives not subject to labeling.

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Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If symptoms occur or in case of doubt, seek medical advice. Take affected persons out into the fresh air.

Inhalation

Supply fresh air, consult a doctor in case of complaints. If unconscious, position and transport in the recovery position.

Skin contact

Wash off immediately with soap and water and rinse thoroughly.
Take off contaminated clothing and wash it before reuse. If skin irritation persists, consult a doctor.

Eye contact

Rinse opened eye for several minutes under running water. If symptoms persist consult a doctor if symptoms persist.
Remove existing contact lenses if possible.

Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Turn a vomiting person lying on their back onto their side. Consult a doctor immediately.
If unconscious, place in recovery position and seek medical assistance immediately.

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

Inhalation of high concentrations of vapors can affect the central nervous system (drowsiness, dizziness, headaches, unconsciousness, etc.). Prolonged or repeated skin contact causes degreasing and drying of the skin and can lead to irritation and dermatitis.
Strong irritant effect on contact with the eye. Swallowed product may cause indigestion, nausea and diarrhea.
Product may cause chronic liver and kidney damage.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

In case of fire: Use alcohol-resistant foam, carbon dioxide (CO₂), extinguishing powder or water spray to extinguish.

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Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Product is not flammable, but combustible.

Can be released in the event of a fire:

Carbon monoxide and carbon dioxide

Hydrocarbons.

Metal oxides.

Sulphur oxides (SO_x)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus.

Cool closed containers near the source of the fire with water. Collect contaminated extinguishing water separately and do not allow it to enter the sewage system.

Ensure sufficient extinguishing water retention. Dispose of contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Note the risk of slipping.

Ensure adequate ventilation.

Do not inhale vapors.

Wear self-contained breathing apparatus if large quantities are released.

Wear protective equipment. Keep unprotected persons away.

Staff not trained for emergencies: Avoid contact with product.

Emergency services: Use suitable personal protective equipment (see SECTION 8).

6.2. Environmental precautions

If the product enters the sewage system/surface water/groundwater, inform the responsible authority.

Do not allow to enter drains/surface water/ground water.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder). If large quantities of liquid leak out, contain and dispose of. Dispose of contaminated material as waste according to section 13.

6.4. Reference to other sections

See SECTIONS 7+8+13

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Avoid aerosol formation. Do not inhale gases/vapors/aerosols.

Avoid direct contact with eyes, skin or clothing.

Organic material soaked with product such as cleaning cloths, paper, etc. represents a fire hazard and must be collected and disposed of in a controlled manner.

Ensure good ventilation/extraction at the workplace.

Do not carry product-soaked cleaning cloths in your trouser pockets.

Notes on fire and explosion protection:

Keep away from heat, sparks and naked flames.

General hygiene

Do not eat, drink, smoke or take snuff at work.

Avoid contact with eyes.

Wash hands before breaks and at the end of work.

Store work clothes separately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:

Store in a cool, dry place in tightly closed containers.

Storage instructions:

Store separately from foodstuffs, luxury foods and animal feed.

Do not store together with oxidizing or self-igniting substances.

Further information on storage conditions:

Store in a cool, dry place in tightly closed containers.

Keep away from heat and direct sunlight. Store container in a well-ventilated place.

Storage class according to TRGS 510: 10 - Flammable liquids that cannot be assigned to any of the aforementioned LGKs

7.3. Specific end use(s)

There is no information available.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Group limit value C9-C14 aliphatics: 300 mg/m³

Ingredients with biological limit values:

BGW: 150 mg/g creatinine

Test material: Urine

Sampling time: end of exposure or end of shift

for long-term exposure: at the end of the shift after several previous shifts Parameters: Butoxyacetic acid (after hydrolysis)

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
Butylglycol	111-76-2 203-905-0	10 49	- -	AGW	2(I); EU, DFG; H, Y	-
Butylglycol	111-76-2 203-905-0	20 98	50 246	IOELV (EU)	skin	-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Butylglycol (111-76-2/203-905-0)	DNEL	Chronic (long term) Inhalation	98 mg/m ³	Workers	Systemic
Butylglycol (111-76-2/203-905-0)	DNEL	Acute (short term) Inhalation	1091 mg/m ³	Workers	Systemic
Butylglycol (111-76-2/203-905-0)	DNEL	Acute (short term) Inhalation	246 mg/m ³	Workers	Local
Butylglycol (111-76-2/203-905-0)	DNEL	Chronic (long term) Inhalation	59 mg/m ³	Consumers	Systemic
Butylglycol (111-76-2/203-905-0)	DNEL	Acute (short term) Inhalation	426 mg/m ³	Consumers	Systemic
Butylglycol (111-76-2/203-905-0)	DNEL	Acute (short term) Inhalation	147 mg/m ³	Consumers	Local
Butylglycol (111-76-2/203-905-0)	DNEL	Chronic (long term) Oral	6,3 mg/kg bw/day	Consumers	Systemic
Butylglycol (111-76-2/203-905-0)	DNEL	Acute (short term) Oral	26,7 mg/kg bw/day	Consumers	Systemic



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Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Long-chain alkylated calcium aryl sulfonate (90194-27-7/290-636-7)	DNEL	Chronic (long term) Oral	0,833 mg/kg bw/day	Consumers	Systemic
Long-chain alkylated calcium aryl sulfonate (90194-27-7/290-636-7)	DNEL	Chronic (long term) Dermal	3,33 mg/kg bw/day	Workers	Systemic
Long-chain alkylated calcium aryl sulfonate (90194-27-7/290-636-7)	DNEL	Chronic (long term) Dermal	1,667 mg/kg bw/day	Consumers	Systemic
Long-chain alkylated calcium aryl sulfonate (90194-27-7/290-636-7)	DNEL	Chronic (long term) Inhalation	0,66 mg/m³	Workers	Systemic
Long-chain alkylated calcium aryl sulfonate (90194-27-7/290-636-7)	DNEL	Chronic (long term) Inhalation	0,33 mg/m³	Consumers	Systemic
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	DNEL	Acute (short term) Oral	0,24 mg/kg bw/day	Consumers	Systemic
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	DNEL	Chronic (long term) Dermal	11,4 mg/kg bw/day	Workers	Systemic
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	DNEL	Chronic (long term) Dermal	5,71 mg/kg bw/day	Consumers	Systemic
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	DNEL	Chronic (long term) Inhalation	8,05 mg/m³	Workers	Systemic
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	DNEL	Chronic (long term) Inhalation	1,98 mg/m³	Consumers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Butylglycol (111-76-2/203-905-0)	PNEC	Intermittent releases (freshwater)	26,4 mg/l
Butylglycol (111-76-2/203-905-0)	PNEC	Freshwater	8,8 mg/l
Butylglycol (111-76-2/203-905-0)	PNEC	Marine water	0,88 mg/l
Butylglycol (111-76-2/203-905-0)	PNEC	Sewage Treatment Plant	463 mg/l
Butylglycol (111-76-2/203-905-0)	PNEC	Sediment (freshwater)	34,6 mg/kg sediment dw



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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Butylglycol (111-76-2/203-905-0)	PNEC	Sediment (marine water)	3,46 mg/kg sediment dw
Butylglycol (111-76-2/203-905-0)	PNEC	Soil	2,33 mg/kg soil dry weight
Butylglycol (111-76-2/203-905-0)	PNEC	Oral (Secondary Poisoning)	0,02 mg/kg food
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0/265-169-7)	PNEC	Oral (Secondary Poisoning)	9,33 mg/kg food
Long-chain alkylated calcium aryl sulfonate (90194-27-7/290-636-7)	PNEC	Freshwater	1 mg/l
Long-chain alkylated calcium aryl sulfonate (90194-27-7/290-636-7)	PNEC	Marine water	1 mg/l
Long-chain alkylated calcium aryl sulfonate (90194-27-7/290-636-7)	PNEC	Sewage Treatment Plant	100 mg/l
Long-chain alkylated calcium aryl sulfonate (90194-27-7/290-636-7)	PNEC	Oral (Secondary Poisoning)	16,667 mg/kg food
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	PNEC	Freshwater	0,004 mg/l
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	PNEC	Marine water	0,0046 mg/l
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	PNEC	Sewage Treatment Plant	100 mg/l
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	PNEC	Soil	0,007 mg/kg soil dry weight
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	PNEC	Sediment (freshwater)	0,045 mg/kg sedi- ment dw
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	PNEC	Sediment (marine water)	0,005 mg/kg sedi- ment dw
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts (68442-22-8/270-478-5)	PNEC	Oral (Secondary Poisoning)	10,67 mg/kg food

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8.2. Exposure controls

Personal Protective Equipment Symbols



Eye / face protection

Tightly sealed safety goggles

Hand protection

Wear protective gloves.

The glove material must be impermeable and resistant to the product / substance / mixture.
Selection of the glove material taking into account the breakthrough times, permeation rates and degradation.
Only use chemical protective gloves with a CE marking of category III (EN 374).

Glove material:

Nitrile rubber

Fluororubber (Viton)

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

Penetration time of the glove material:

With a layer thickness of 0.4 mm, the penetration time is greater than 480 minutes. The exact breakthrough time can be obtained from the protective glove manufacturer and must be adhered to.

Other skin protection

Solvent-resistant protective clothing

Respiratory protection

Use respiratory protection if ventilation is insufficient or the limit values are exceeded.

Wear self-contained breathing apparatus if large quantities are released.

Filter A/P2

Other

General protective and hygiene measures:

Wear suitable protective clothing when working.

Store work clothes separately.

Avoid contact with eyes and skin.

Do not inhale gases/vapors/aerosols.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Brown.

Odour

Characteristic.

Odour threshold

Not determined.

Melting point / freezing point

Not determined.

Boiling point or initial boiling point and boiling range

Not determined.

Flammability

Not applicable.

Lower and upper explosion limit

Not determined.

Flash point

63 °C

Auto-ignition temperature

The product is not self-igniting.

Decomposition temperature

Not determined.

pH

Not determined.

Kinematic viscosity

37,65 mm²/s

Method

@40 °C

Viscosity, dynamic

Not determined.

Solubility

No data available

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Water solubility

insoluble

Partition coefficient n-octanol/water

Not determined.

Vapour pressure

Not determined.

Density and/or relative density

0,883 g/cm³

Method

@20 °C

Relative density

Not determined.

Relative vapour density

Not determined.

Evaporation Rate

Not determined.

Explosive properties

The product is not explosive, but the formation of explosive dust/air mixtures is possible.

Oxidising properties

Not applicable.

Particle characteristics

No data available

9.2. Other information

The product is not self-igniting.

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No decomposition when used as intended.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Heat, sparks, naked flames, electrostatic discharges.



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- 10.5. Incompatible materials**
Avoid contact with strong oxidizing agents.
- 10.6. Hazardous decomposition products**
No decomposition if stored and handled as directed.

SECTION 11: Toxicological information

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

Acute toxicity
Harmful if inhaled.

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
Hydrocarbons, C10-C13, N- alkanes, isoalkanes, cyclic, < 2% aromatics / 918-481-9	LD50	>5000 mg/kg	Oral	-	Rat	OECD 401	-
Butylglycol 111-76-2 / 203-905-0	LD50	1200 mg/kg (ATE)	Oral	-	-	-	-
Butylglycol 111-76-2 / 203-905-0	-	1414 mg/kg	-	-	Guinea Pig	OECD 401	-
Butylglycol 111-76-2 / 203-905-0	LD50	> 2000 mg/kg	Dermal	-	Guinea Pig	-	-
Butylglycol 111-76-2 / 203-905-0	LC0	> 3,9 mg/l	Inhalative	4 hours	Guinea Pig	-	steam
Butylglycol 111-76-2 / 203-905-0	ATE Inhal.	3 mg/l	-	-	Rat	-	steam
Distillates (pet- roleum), solvent- dewaxed heavy par- affinic 64742-65-0 /	LD50	> 5000 mg/kg	Oral	-	Rat	OECD 401	-



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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
265-169-7							
Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0 / 265-169-7	LD50	> 2000 mg/kg	Dermal	-	Rabbit	OECD 402	-
Long-chain alkylated calcium aryl sulfonate 90194-27-7 / 290-636-7	LD50	> 5000 mg/kg	Oral	-	Rat	-	-
Long-chain alkylated calcium aryl sulfonate 90194-27-7 / 290-636-7	LD50	> 5000 mg/kg	Dermal	-	Rabbit	-	-
Long-chain alkylated calcium aryl sulfonate 90194-27-7 / 290-636-7	LC50	1,9 mg/l	Inhalative	4 hours	Rat	-	-
Long-chain alkylated calcium aryl sulfonate 90194-27-7 / 290-636-7	LC50	> 1,9 mg/l	-	4 hours	Rat	-	-
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts 68442-22-8 / 270-478-5	LD50	> 2000 mg/kg	Oral	-	Rat	-	-
Phosphorodithionic acid, mixed O,O-	LD50	> 2002 mg/kg	Dermal	-	Rat	-	-



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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
bis(2-ethylhexyl and isobutyl) ester, zinc salts 68442-22-8 / 270-478-5							

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Product / Substance name CAS / EC no.	Exposure route	Value / Dose	Species	Exposure time / Exposure frequency	Method / Guideline	Other
Butylglycol 111-76-2 / 203-905-0	Oral	370 mg/kg bw/day	Mouse	90 days	NOAEL	OECD 408
Butylglycol 111-76-2 / 203-905-0	Dermal	> 150 mg/kg bw/day	Rabbit	90 days	NOAEL	OECD 411

Aspiration hazard

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

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11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
Butylglycol 111-76-2 / 203-905-0	LC50	1474 mg/l	96 hours	Onchorhynchus mykiss (Rainbow trout)	OECD 203	statically
Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0 / 265-169-7	LC50	> 100 mg/l	-	Pimephales promelas (Fat-head Minnow)	OECD 203	statically
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts 68442-22-8 / 270-478-5	LC50	4,5 mg/l	96 hours	Leuciscus idus (Golden orfe)	-	-
Phosphorodithionic acid, mixed O,O-bis(2-ethylhexyl and isobutyl) ester, zinc salts 68442-22-8 / 270-478-5	LC50	46 mg/l	-	Cyprinodon variegatus (Sheepshead minnow)	OECD 203	-

Acute algae toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
Butylglycol	EC50	911 mg/l	72 hours	Raphidocelis	OECD 201	statically



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Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
111-76-2 / 203-905-0				subcapitata		
Distillates (petro- leum), solvent- dewaxed heavy paraffinic 64742-65-0 / 265-169-7	NOEC	> 100 mg/l	72 hours	Raphidocelis subcapitata	-	statically
Phosphorodith- ionic acid, mixed O,O-bis(2-ethyl- hexyl and isobutyl) ester, zinc salts 68442-22-8 / 270-478-5	IC50	21-24 mg/l	72 hours	aquatic algae and cyanobac- teria	-	-

Acute crustacean toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
Butylglycol 111-76-2 / 203-905-0	EC50	1800 mg/l	48 hours	Daphnia magna	OECD 202	statically
Distillates (petro- leum), solvent- dewaxed heavy paraffinic 64742-65-0 / 265-169-7	EC50	> 10000 mg/l	48 hours	Daphnia pulex	OECD 202	-
Phosphorodith- ionic acid, mixed O,O-bis(2-ethyl- hexyl and isobutyl) ester, zinc salts 68442-22-8 / 270-478-5	EC50	23 mg/l	48 hours	aquatic inverteb- rates	OECD 202	-
Phosphorodith- ionic acid, mixed O,O-bis(2-ethyl- hexyl and isobutyl) ester,	NOEC	> 0,81 mg/l	21 days	Daphnia magna	OECD 211	-



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Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
zinc salts 68442-22-8 / 270-478-5						

12.2. Persistence and degradability

Persistence and degradability

No further relevant information available.
Leaked product can lead to the formation of a film on the water surface, which reduces oxygen exchange and results in the death of organisms.

12.3. Bioaccumulative potential

Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

Mobility

No further relevant information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

12.7. Other adverse effects

Other adverse effects

No further relevant information available.

Other

Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

German Water Class

WGK3 - highly water endangering

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

The mentioned waste codes are recommendations based on the expected use of the product.
Must not be disposed of together with household waste. Do not allow to enter drains.



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Packaging

The packaging must be disposed of in accordance with the Packaging Act.
Contaminated packaging must be disposed of in the same way as the substance.
Non-contaminated packaging can be recycled.

Waste code	Waste description
07 07 04*	other organic solvents, washing liquids and mother liquors
14 06 03*	other solvents and solvent mixtures

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

Other

HP4 - irritant - skin irritation and eye damage

SECTION 14: Transport information

14.1. UN number

No dangerous goods in the sense of these transport regulations.

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

No dangerous goods in the sense of these transport regulations.

14.3. Transport hazard class(es)

Label

No dangerous goods in the sense of these transport regulations.

ADR / RID Class

No dangerous goods in the sense of these transport regulations.

ADR / RID Classification code

No dangerous goods in the sense of these transport regulations.

ADR / RID hazard identification number

No dangerous goods in the sense of these transport regulations.

IMDG Class

No dangerous goods in the sense of these transport regulations.

14.4. Packing group

No dangerous goods in the sense of these transport regulations.

14.5. Environmental hazards

Not applicable.

IMDG Marine Pollutant

Not applicable.

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14.6. Special precautions for user

Not applicable.

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

Directive 2012/18/EU - Named dangerous substances - ANNEX I

None of the ingredients are included.

Annex XVII (REACH): The product is subject to the following restrictions according to Annex XVII, Regulation (EC) 1907/2006 (REACH): 3

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients are included.

Regulation (EU) 2019/1148

Annex I - Restricted explosives precursors

None of the ingredients are included.

Annex II - Reportable explosives precursors

None of the ingredients are included.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients are included.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug substitutes

None of the ingredients are included.

National regulations

Technical guidance on air:

Class: NK / Share: 50 - 100 %

Water hazard classification : 3 - highly water endangering

Storage class according to TRGS 510: 10 - Flammable liquids that cannot be assigned to any of the aforementioned LGKs

Substances of Very High Concern (SVHC) according to REACH, Article 57:

None of the ingredients are included.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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SECTION 16: Other information

Abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW - Occupational Exposure Limit (Arbeitsplatzgrenzwert)
ATE - Acute Toxicity Estimate
AwSV - Ordinance on Installations for Handling Substances Hazardous to Water
C&L - Einstufung und Kennzeichnung
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSR - Chemical Safety Report
DNEL - Derived No Effect Level
ECHA - European Chemicals Agency
GefStoffV - Hazardous Substances Ordinance (Gefahrstoffverordnung)
GHS - Globally Harmonized System
IMDG - International Maritime Dangerous Goods
International Air Transport Association
IUCLID - International Uniform Chemical Information Database
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LGK - Storage Class (Lagerklasse)
OEL - Occupational Exposure Lim
PBT - Persistent, Bioaccumulative and Toxic substance
PNEC - Predicted No Effect Concentration(s)
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SCBA - Self-Contained Breathing Apparatus
STOT - Specific Target Organ Toxicity
SVHC - Substances of Very High Concern
TRGS - Technische Regeln für Gefahrstoffe
UFI - Unique Formula Identifier
vPvB - Very Persistent and Very Bioaccumulative
WGK - Water Hazard Class (Wassergefährdungsklasse)

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Phrase meaning

Skin Irrit. 2 - Skin irritation, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

Acute Tox. 4 - inhalation - Acute toxicity, inhalation, hazard category 4

Asp. Tox. 1 - Aspiration hazard, hazard category 1

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

Acute Tox. 3 - inhalation - Acute toxicity, inhalation, hazard category 3

Eye Dam. 1 - Serious eye damage, hazard category 1

Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Other

Additional information

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. The recipient of our products is responsible for observing existing laws and regulations. The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information is intended to provide you with guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. If the product is mixed, blended or processed with other materials processed or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

Manufacturer's notes

The data of the relevant components were taken from the latest safety data sheet of the upstream supplier.