

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : TURMOFLUID ED 13 LOSE  
Revision date : 16.12.2024  
Print date : 16.12.2024

Version (Revision) : 3.1.0 (3.0.0)

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

### 1.1 Product identifier

TURMOFLUID ED 13 LOSE

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

#### Relevant identified uses

##### Product Categories [PC]

PC24 - Lubricants, greases, release products

### 1.3 Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Lubricant Consult GmbH

**Street :** Gutenbergstraße 13

**Postal code/city :** 63477 MAINTAL (GERMANY)

**Telephone :** +49 6109/7650-0

**Telefax :** +49 6109/7650-51

**E-mail :** msds-request@lubcon.com

**Information contact :** Environment, Health & Safety: Dr. Jens Matthes

### 1.4 Emergency telephone number

+49 6109/7650-0

Monday to Friday 8:00 AM to 4:00 PM (CET)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard components for labelling

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1

##### Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P314 Get medical advice/attention if you feel unwell.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

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### 3.2 Mixtures

#### Hazardous ingredients

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; REACH registration No. : 01-2119473977-17-xxxx ; EC No. : 919-164-8; CAS No. : 64742-82-1

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304 STOT RE 1 ; H372 Aquatic Chronic 3 ; H412

(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; REACH registration No. : 01-2119488991-20-xxxx ; EC No. : 203-749-3; CAS No. : 110-25-8

Weight fraction :  $\geq 0,5 - < 1 \%$

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Aquatic Acute 1 ; H400 Aquatic Chronic 3 ; H412

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; REACH registration No. : 01-2119777867-13-xxxx ; EC No. : 202-414-9; CAS No. : 95-38-5

Weight fraction :  $\geq 0,5 - < 1 \%$

Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Skin Corr. 1C ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

2-Ethylhexyl zinc dithiophosphate ; REACH registration No. : 01-2119493635-27-xxxx ; EC No. : 224-235-5; CAS No. : 4259-15-8

Weight fraction :  $\geq 0,5 - < 1 \%$

Classification 1272/2008 [CLP] : Lact. ; H362 STOT SE 2 ; H371 STOT RE 2 ; H373 Eye Dam. 1 ; H318 Aquatic Chronic 2 ; H411

#### Further ingredients

SHC (Synthetic hydrocarbon)

Additives not to declare

#### Additional information

2-Ethylhexyl zinc dithiophosphate (CAS No. 4259-15-8) is classified according to Korean law (KOSHA, Korea Occupational Safety & Health Agency). Under REACH legislation H362, H371 and H373 are not required.

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap In case of skin irritation, consult a physician.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>). ABC-powder. BC-powder. Foam. Dry sand.

#### Unsuitable extinguishing media

Water. Strong water jet. High power water jet.

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Burning produces heavy smoke.

### 5.3 Advice for firefighters

Use suitable breathing apparatus.

### 5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

Special danger of slipping by leaking/spilling product.

### 6.1 Personal precautions, protective equipment and emergency procedures

None

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Ensure waste is collected and contained. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Soak up inert absorbent and dispose as waste requiring special attention. Suitable material for taking up: Universal binder. Kieselguhr.

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage



### 7.1 Precautions for safe handling

#### Protective measures

It is recommended to design all work processes always so that the following is excluded: Generation/formation of mist. Avoid: Inhalation of vapours or spray/mists. Skin contact, Eye contact. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Hints on joint storage

Storage class : 10

Storage class (TRGS 510) : 10

Keep away from

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Food and feedingstuffs

### Further information on storage conditions

Keep/Store only in original container. Keep container tightly closed. Protect against UV-radiation/sunlight. Humidity.  
Contact with air/oxygen. Dust deposits.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Take the precautions customary when handling chemicals. Change contaminated, saturated clothing. Keep away from sources of ignition - No smoking.

### 8.1 Control parameters

#### Occupational exposure limit values

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1

Limit value type (country of origin) : TLV/TWA ( EC )

Limit value : 100 ppm / 375 mg/m<sup>3</sup>

Version :

#### DNEL/DMEL and PNEC values

##### DNEL/DMEL

Limit value type : DNEL Consumer (systemic) ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 )

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : = 125 mg/kg/d

Limit value type : DNEL Consumer (systemic) ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 )

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : = 185 mg/m<sup>3</sup>

Safety factor : 24 h

Limit value type : DNEL Consumer (systemic) ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 )

Exposure route : Oral

Exposure frequency : Long-term (repeated)

Limit value : = 125 mg/kg/d

Limit value type : DNEL/DMEL (Industrial) ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 )

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : = 208 mg/kg/d

Limit value type : DNEL/DMEL (Industrial) ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 )

Exposure route : Inhalation

Exposure frequency : Short-term (acute)

Limit value : = 871 mg/kg

Safety factor : 8 h

Limit value type : DNEL worker (systemic) ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 )

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : = 208 mg/kg/d

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|                      |                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------|
| Limit value type :   | DNEL worker (systemic) ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 ) |
| Exposure route :     | Inhalation                                                                                                                 |
| Exposure frequency : | Short-term (acute)                                                                                                         |
| Limit value :        | = 871 mg/m <sup>3</sup>                                                                                                    |
| Safety factor :      | 8 h                                                                                                                        |
| Limit value type :   | DNEL Consumer (local) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )                                 |
| Exposure route :     | Inhalation                                                                                                                 |
| Exposure frequency : | Short-term (acute)                                                                                                         |
| Limit value :        | = 9 mg/m <sup>3</sup>                                                                                                      |
| Limit value type :   | DNEL Consumer (local) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )                                 |
| Exposure route :     | Inhalation                                                                                                                 |
| Exposure frequency : | Long-term (repeated)                                                                                                       |
| Limit value :        | = 0,005 mg/m <sup>3</sup>                                                                                                  |
| Limit value type :   | DNEL Consumer (systemic) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )                              |
| Exposure route :     | Oral                                                                                                                       |
| Exposure frequency : | Short-term (acute)                                                                                                         |
| Limit value :        | = 92 mg/kg                                                                                                                 |
| Limit value type :   | DNEL Consumer (systemic) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )                              |
| Exposure route :     | Oral                                                                                                                       |
| Exposure frequency : | Long-term (repeated)                                                                                                       |
| Limit value :        | = 5 mg/kg                                                                                                                  |
| Limit value type :   | DNEL Consumer (systemic) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )                              |
| Exposure route :     | Dermal                                                                                                                     |
| Exposure frequency : | Long-term (repeated)                                                                                                       |
| Limit value :        | = 5 mg/kg                                                                                                                  |
| Limit value type :   | DNEL Consumer (systemic) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )                              |
| Exposure route :     | Dermal                                                                                                                     |
| Exposure frequency : | Short-term (acute)                                                                                                         |
| Limit value :        | = 50 mg/kg                                                                                                                 |
| Limit value type :   | DNEL Consumer (systemic) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )                              |
| Exposure route :     | Inhalation                                                                                                                 |
| Exposure frequency : | Long-term (repeated)                                                                                                       |
| Limit value :        | = 0,1 mg/m <sup>3</sup>                                                                                                    |
| Limit value type :   | DNEL worker (local) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )                                   |
| Exposure route :     | Inhalation                                                                                                                 |
| Exposure frequency : | Short-term (acute)                                                                                                         |
| Limit value :        | = 18 mg/m <sup>3</sup>                                                                                                     |
| Limit value type :   | DNEL worker (local) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )                                   |
| Exposure route :     | Inhalation                                                                                                                 |
| Exposure frequency : | Long-term (repeated)                                                                                                       |
| Limit value :        | = 0,01 mg/m <sup>3</sup>                                                                                                   |
| Limit value type :   | DNEL worker (systemic) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )                                |
| Exposure route :     | Dermal                                                                                                                     |
| Exposure frequency : | Short-term (acute)                                                                                                         |

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|                      |                                                                                               |
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| Limit value :        | = 100 mg/kg                                                                                   |
| Limit value type :   | DNEL worker (systemic) ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 ) |
| Exposure route :     | Dermal                                                                                        |
| Exposure frequency : | Short-term (acute)                                                                            |
| Limit value :        | = 2 mg/kg                                                                                     |
| Limit value type :   | DNEL worker (systemic) ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 ) |
| Exposure route :     | Inhalation                                                                                    |
| Exposure frequency : | Short-term (acute)                                                                            |
| Limit value :        | = 14 mg/m <sup>3</sup>                                                                        |
| Limit value type :   | DNEL worker (systemic) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )   |
| Exposure route :     | Dermal                                                                                        |
| Exposure frequency : | Long-term (repeated)                                                                          |
| Limit value :        | = 10 mg/kg                                                                                    |
| Limit value type :   | DNEL worker (systemic) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )   |
| Exposure route :     | Inhalation                                                                                    |
| Exposure frequency : | Long-term (repeated)                                                                          |
| Limit value :        | = 0,2 mg/m <sup>3</sup>                                                                       |
| Limit value type :   | DNEL worker (systemic) ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 ) |
| Exposure route :     | Dermal                                                                                        |
| Exposure frequency : | Long-term (repeated)                                                                          |
| Limit value :        | = 0,6 mg/kg                                                                                   |
| Limit value type :   | DNEL worker (systemic) ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 ) |
| Exposure route :     | Inhalation                                                                                    |
| Exposure frequency : | Long-term (repeated)                                                                          |
| Limit value :        | = 0,46 mg/m <sup>3</sup>                                                                      |
| Limit value type :   | DNEL Consumer (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )          |
| Exposure route :     | Oral                                                                                          |
| Exposure frequency : | Long-term (repeated)                                                                          |
| Limit value :        | = 0,19 mg/kg/d                                                                                |
| Limit value type :   | DNEL Consumer (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )          |
| Exposure route :     | Inhalation                                                                                    |
| Exposure frequency : | Long-term (repeated)                                                                          |
| Limit value :        | = 1,67 mg/m <sup>3</sup>                                                                      |
| Limit value type :   | DNEL Consumer (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )          |
| Exposure route :     | Dermal                                                                                        |
| Exposure frequency : | Long-term (repeated)                                                                          |
| Limit value :        | = 4,8 mg/kg                                                                                   |
| Limit value type :   | DNEL worker (local) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )               |
| Exposure route :     | Dermal                                                                                        |
| Exposure frequency : | Short-term (acute)                                                                            |
| Limit value :        | = 0,09 mg/cm <sup>2</sup>                                                                     |
| Limit value type :   | DNEL worker (local) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )               |
| Exposure route :     | Inhalation                                                                                    |
| Exposure frequency : | Short-term (acute)                                                                            |
| Limit value :        | = 0,42 ppm                                                                                    |
| Limit value type :   | DNEL worker (local) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )               |
| Exposure route :     | Dermal                                                                                        |
| Exposure frequency : | Long-term                                                                                     |

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|----------------------|------------------------------------------------------------------------------------|
| Limit value :        | = 0,09 mg/cm <sup>2</sup> /d                                                       |
| Limit value type :   | DNEL worker (local) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )    |
| Exposure route :     | Inhalation                                                                         |
| Exposure frequency : | Long-term (repeated)                                                               |
| Limit value :        | = 0,07 ppm                                                                         |
| Limit value type :   | DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 ) |
| Exposure route :     | Dermal                                                                             |
| Exposure frequency : | Short-term (acute)                                                                 |
| Limit value :        | = 0,14 mg/kg/d                                                                     |
| Limit value type :   | DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 ) |
| Exposure route :     | Inhalation                                                                         |
| Exposure frequency : | Short-term (acute)                                                                 |
| Limit value :        | = 0,42 ppm                                                                         |
| Limit value type :   | DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 ) |
| Exposure route :     | Dermal                                                                             |
| Exposure frequency : | Long-term                                                                          |
| Limit value :        | = 9,59 mg/kg                                                                       |
| Limit value type :   | DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 ) |
| Exposure route :     | Inhalation                                                                         |
| Exposure frequency : | Long-term (repeated)                                                               |
| Limit value :        | = 0,21 ppm                                                                         |
| Limit value type :   | DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 ) |
| Exposure route :     | Inhalation                                                                         |
| Exposure frequency : | Long-term (repeated)                                                               |
| Limit value :        | = 6,6 mg/m <sup>3</sup>                                                            |
| Limit value type :   | DNEL worker (systemic) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 ) |
| Exposure route :     | Dermal                                                                             |
| Exposure frequency : | Long-term (repeated)                                                               |
| Limit value :        | = 9,6 mg/kg/d                                                                      |

### PNEC

|                    |                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------|
| Limit value type : | PNEC (Aquatic, freshwater) ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )         |
| Limit value :      | = 0,0003 mg/l                                                                                             |
| Limit value type : | PNEC (Aquatic, freshwater) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )           |
| Limit value :      | = 0,00043 mg/l                                                                                            |
| Limit value type : | PNEC (Aquatic, intermittent release) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 ) |
| Limit value :      | = 0,0043 mg/l                                                                                             |
| Limit value type : | PNEC (Aquatic, marine water) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )         |
| Limit value :      | = 0,00004 mg/l                                                                                            |
| Limit value type : | PNEC (Aquatic, marine water) ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )       |
| Limit value :      | < 0,00001 mg/l                                                                                            |
| Limit value type : | PNEC (Sediment, freshwater) ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )        |
| Limit value :      | = 0,376 mg/kg                                                                                             |
| Limit value type : | PNEC (Sediment, marine water) ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )      |
| Limit value :      | = 0,0376 mg/kg                                                                                            |
| Limit value type : | PNEC Soil ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )                          |
| Limit value :      | = 0,075 mg/kg                                                                                             |
| Limit value type : | PNEC (Sewage treatment plant) ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS                      |

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|--------------------|-------------------------------------------------------------------------------------------|
|                    | No. : 95-38-5 )                                                                           |
| Limit value :      | = 0,27 mg/l                                                                               |
| Limit value type : | PNEC (Air) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )                    |
| Limit value :      | = 7,1 mg/m <sup>3</sup>                                                                   |
| Limit value type : | PNEC (Aquatic, freshwater) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )    |
| Limit value :      | = 0,004 mg/l                                                                              |
| Limit value type : | PNEC (Aquatic, marine water) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  |
| Limit value :      | = 0,0046 mg/l                                                                             |
| Limit value type : | PNEC (Sediment, freshwater) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )   |
| Limit value :      | = 0,0701 mg/kg                                                                            |
| Limit value type : | PNEC (Sediment, marine water) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 ) |
| Limit value :      | = 0,00701 mg/kg                                                                           |
| Limit value type : | PNEC Soil ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )                     |
| Limit value :      | = 0,0548 mg/kg                                                                            |
| Limit value type : | PNEC (Secondary poisoning) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )    |
| Limit value :      | = 8,3 mg/kg                                                                               |
| Limit value type : | PNEC (Sewage treatment plant) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 ) |
| Limit value :      | = 3,8 mg/l                                                                                |

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection

Eye protection: not required. Avoid: Eye contact.

#### Recommended eye protection articles

DIN EN 166

#### Skin protection

##### Hand protection

Has degreasing effect on the skin. Wear suitable gloves.

**By long-term hand contact :** Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

**Suitable material :** PE (Polyethylene). NR (natural rubber, natural latex). NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber).

**Breakthrough time (maximum wearing time) :** PE < 30 min. ; NR < 10 min.; NBR > 480 min.

**Thickness of the glove material :** min. 0,38 mm

**Recommended glove articles :** EN ISO 374; DIN EN 420 Uvex. KCL, MAPA. Or comparable articles from other companies.

#### Respiratory protection

No special measures are necessary. Avoid: Inhalation of vapours or spray/mists

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Colour :** light yellow

#### Safety relevant basis data

**Physical state :**

|                                                  |              |         |        |        |
|--------------------------------------------------|--------------|---------|--------|--------|
| <b>Solidifying point :</b>                       | ( 1013 hPa ) | approx. | liquid | -50 °C |
| <b>Initial boiling point and boiling range :</b> | ( 1013 hPa ) | >       |        | 345 °C |

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|                             |              |         |      |                    |
|-----------------------------|--------------|---------|------|--------------------|
| Decomposition temperature : | ( 1013 hPa ) | >       | 345  | °C                 |
| Flash point :               | ( 1013 hPa ) | >       | 140  | °C                 |
| Vapour pressure :           | ( 50 °C )    | approx. | 0,02 | hPa                |
| Density :                   | ( 20 °C )    | =       | 0,88 | g/cm <sup>3</sup>  |
| Viscosity :                 | ( 40 °C )    | =       | 22   | mm <sup>2</sup> /s |
| Viscosity :                 | ( 100 °C )   | =       | 4,1  | mm <sup>2</sup> /s |

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is stable.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Oxidising agent, strong.

### 10.6 Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Gases/vapours, harmful.

## SECTION 11: Toxicological information

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

#### Acute effects

By analogy:

##### Acute oral toxicity

|                  |              |
|------------------|--------------|
| Parameter :      | LD50         |
| Exposure route : | Oral         |
| Species :        | Rat          |
| Effective dose : | > 5000 mg/kg |

##### Acute dermal toxicity

|                  |              |
|------------------|--------------|
| Parameter :      | LD50         |
| Exposure route : | Dermal       |
| Species :        | Rabbit       |
| Effective dose : | > 2000 mg/kg |

##### Acute inhalation toxicity

|                  |                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------------|
| Parameter :      | LD50 ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 ) |
| Exposure route : | Inhalation (vapour)                                                                                      |
| Species :        | Rat                                                                                                      |
| Effective dose : | = 13,1 mg/m <sup>3</sup>                                                                                 |
| Exposure time :  | 4 h                                                                                                      |
| Method :         | OECD 403                                                                                                 |
| Parameter :      | LC50 ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )                                |
| Exposure route : | Inhalation                                                                                               |
| Species :        | Rat                                                                                                      |

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Effective dose : = 1,37 mg/l  
Exposure time : 4 h

## Irritant and corrosive effects

### Primary irritation to the skin

Parameter : Primary irritation to the skin ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Species : Rabbit  
Result : Irritant  
Method : OECD 404  
Parameter : Primary irritation to the skin ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )  
Species : Rabbit  
Result : Causes burns  
Method : OECD 404  
Parameter : Primary irritation to the skin ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Rabbit  
Result : Not an irritant

### Irritation to eyes

Parameter : Irritation to eyes ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Species : Rabbit  
Result : Irreversible.  
Parameter : Irritation to eyes ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )  
Species : Rabbit  
Result : Causes serious eye damage  
Method : OECD 405  
Parameter : Irritation to eyes ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Rabbit  
Result : Risk of serious damage to eyes  
Method : OECD 405

## Sensitisation

### In case of skin contact

Parameter : Skin sensitisation ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Species : Guinea pig  
Result : Not sensitising.  
Method : OECD 406  
Parameter : Skin sensitisation ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Species : Mouse  
Result : Not sensitising.  
Method : OECD 429  
Parameter : Skin sensitisation ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Guinea pig  
Result : Not sensitising.  
Method : OECD 406

### In case of inhalation

Parameter : Sensitisation to the respiratory tract ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )  
Species : Guinea pig  
Result : Not sensitising.  
Method : OECD 406

## Repeated dose toxicity (subacute, subchronic, chronic)

### Subacute oral toxicity

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Parameter : NOAEL(C) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : = 125 mg/kg

### Subacute dermal toxicity

Parameter : NOAEL(C) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Dermal  
Effective dose : = 1250 mg/kg  
Exposure time : 1 d

### Subacute inhalation toxicity

Parameter : NOAEC ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Inhalation  
Effective dose : = 214 mg/m<sup>3</sup>  
Exposure time : 1 d

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

Parameter : Carcinogenicity ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Test result : Negative.  
Parameter : NOAEL(C) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : = 30 mg/kg

### Germ cell mutagenicity

#### In vitro mutagenicity

Parameter : Gene-mutations microorganisms ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Test result : Negative.  
Parameter : Gene-mutations mammalian cells ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )  
Test result : Negative.  
Parameter : Gene-mutations mammalian cells ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Test result : Negative.  
Parameter : In vitro mutagenicity ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Test result : Ames test negative.

#### In vivo mutagenicity

Parameter : In vivo mutagenicity ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Test result : Negative.

### Reproductive toxicity

#### Adverse effects on developmental toxicity

Parameter : Adverse effects on developmental toxicity ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Species : Mammalian cells (with metabolic activation)  
Test result : Negative.  
Method : OECD 421

#### Developmental toxicity/teratogenicity

##### One generation reproduction toxicity test

Parameter : One generation reproduction toxicity test ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )  
Test result : Negative.  
Method : OECD 422  
Parameter : One generation reproduction toxicity test ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )

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Exposure route : Oral  
Species : Rat  
Effective dose : = 30 mg/kg  
Method : OECD 421  
Parameter : NOAEL(C) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : = 30 mg/kg  
Test result : Questionable.

### STOT-single exposure

#### STOT SE 1 and 2

Parameter : NOAEL(C) ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : = 30 mg/kg

### 11.2 Information on other hazards

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : = 10 - 100 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Species : Leuciscus idus (golden orfe)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 3,2 - 4,6 mg/l  
Exposure time : 96 h  
Evaluation : Very toxic to fish.  
Method : DIN 38412 / part 15  
Parameter : LC50 ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )  
Species : Brachydanio rerio (Zebra-fish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : = 0,3 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : = 4,4 mg/l  
Exposure time : 96 h  
Method : OECD 203

##### Acute (short-term) daphnia toxicity

Parameter : EC50 ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 )  
Species : Daphnia magna (Big water flea)

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Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : = 10 - 22 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : = 0,53 mg/l  
Exposure time : 48 h  
Evaluation : Very toxic to daphnia.  
Parameter : EC50 ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : = 0,136 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : = 75 mg  
Exposure time : 48 h  
Method : OECD 202

### Chronic (long-term) daphnia toxicity

Parameter : NOEC ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : = 0,4 mg/l  
Exposure time : 21 d

### Acute (short-term) algae toxicity

Parameter : EC50 ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : = 50 - 100 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : = 5,1 mg/l  
Exposure time : 72 h  
Evaluation : Very toxic to algae.  
Parameter : EC50 ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : = 0,03 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC50 ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 240 mg/l  
Exposure time : 72 h

### Bacteria toxicity

Parameter : EC50 ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )

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Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : = 380 mg/l  
Exposure time : 16 h  
Method : OECD 209

### 12.2 Persistence and degradability

#### Biodegradation

Parameter : Biodegradation ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 )  
Effective dose : = 74,7 %  
Exposure time : 28 d  
Evaluation : Readily biodegradable (according to OECD criteria).  
Parameter : Biodegradation ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Evaluation : Readily biodegradable (according to OECD criteria).  
Parameter : Biodegradation ( 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; CAS No. : 95-38-5 )  
Evaluation parameter : Aerobic  
Effective dose : approx. 1 %  
Exposure time : 28 d  
Evaluation : Poorly biodegradable.  
Method : OECD 301B  
Parameter : CO2 formation (% of the theoretical value) ( (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8 )  
Effective dose : = 85 %  
Exposure time : 28 d  
Method : OECD 301B  
Parameter : Biodegradation ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Inoculum : Degree of elimination  
Effective dose : < 5 %  
Exposure time : 5 d  
Evaluation : Poorly biodegradable.  
Method : OECD 301D

Overall evaluation on the mixture: Not readily biodegradable (according to OECD criteria).

### 12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; CAS No. : 64742-82-1 )  
Concentration : = 4,2 - 7,2  
Parameter : Partition coefficient: n-octanol/water ( 2-Ethylhexyl zinc dithiophosphate ; CAS No. : 4259-15-8 )  
Concentration : = 3,59

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6 Endocrine disrupting properties

Endocrine disrupting potential: None known.

### 12.7 Other adverse effects

This product does not contain nanoparticles.

### 12.8 Overall evaluation

If product enters soil, it will be mobile and may contaminate groundwater. In accordance with the required stability the product is poorly biodegradable.

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### SECTION 13: Disposal considerations

Dispose according to legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. Collect the waste separately. Evidence for disposal must be provided.

##### Product/Packaging disposal

**Waste codes/waste designations according to EWC/AVV**

###### Waste code product

13 02 05 - Mineral-based non-chlorinated engine, gear and lubricating oils

###### Waste code packaging

15 01 10 - Packaging containing residues of or contaminated by hazardous substances. - Dispose of completely emptied containers as combustible waste or metal waste depending on the material.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

#### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

#### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

#### 14.4 Packing group

No dangerous good in sense of these transport regulations.

#### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

#### 14.6 Special precautions for user

None

#### 14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

### SECTION 15: Regulatory information

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

##### National regulations

###### Restrictions of occupation

Not relevant

###### Störfallverordnung

Not subject to StörfallVO.

###### Emission control act (TA-Luft)

Weight fraction (Number 5.2.5. I) : <= 5 %

###### Water hazard class (WGK)

Class : 2 (Significant hazardous to water) Classification according to AwSV

###### Other regulations, restrictions and prohibition regulations

General Water Assessment Methodology (ABM) of the Netherlands: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Part of substances from the ZZS category (Zeer Zorgwekkende)

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Stoffen = Substances of very high concern): None.

### Switzerland

#### VOCV-Regulation

Volatile organic compounds (VOC) content in percent by weight : 5 %

#### Additional information

##### TSCA (Toxic Substances Control Act) - USA, United States of America

All chemical substances in this mixture are included on or are exempted from listing on the TSCA Inventory for Chemical Substances.

##### California Proposition 65 - State of California

Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65.

## 15.2 Chemical safety assessment

No information available.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients · 15. National regulations

### 16.2 Abbreviations and acronyms

None

### 16.3 Key literature references and sources for data

Includes supplements in accordance with Regulation (EU) 2020/878 of June 18, 2020

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The statement is derived from the properties of the single components.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

|      |                                                                    |
|------|--------------------------------------------------------------------|
| H302 | Harmful if swallowed.                                              |
| H304 | May be fatal if swallowed and enters airways.                      |
| H314 | Causes severe skin burns and eye damage.                           |
| H315 | Causes skin irritation.                                            |
| H318 | Causes serious eye damage.                                         |
| H332 | Harmful if inhaled.                                                |
| H362 | May cause harm to breast-fed children.                             |
| H371 | May cause damage to organs.                                        |
| H372 | Causes damage to organs through prolonged or repeated exposure.    |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| 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.                 |

### 16.6 Training advice

None

### 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data

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sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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