

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 10/15/2025 Version: 1.1

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

1.1. Product identifier

Product form : Mixture Product name : Millmax ZF 10

UFI SXWR-W0JV-W00K-YQM3

Product code

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

Relevant identified uses

Use of the substance/mixture : Hydraulic fluids and additives

1.3. Details of the supplier of the safety data sheet

Manufacturer

Millers Oils Ltd

Hillside Oil Works Hillside Oil works

Rastrick Common

GB HD6 3DP Brighouse, West Yorkshire

United Kingdom

T +44 (0)1484 713201, F +44 (0)1484 721263

h.s@millersoils.co.uk

1.4. Emergency telephone number

Emergency number : 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aspiration hazard, Category 1 H304

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May be fatal if swallowed and enters airways.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS08

Signal word (CLP)

Contains : Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics,

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways.

Precautionary statements (CLP) : P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. Do

> NOT induce vomiting. P405 - Store locked up.

P501 - Dispose of container, contents to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH-statements : EUH208 - Contains Amines, C10-C14-tert-alkyl(68955-53-3). May produce an allergic

reaction.

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2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics,	CAS-No.: 1174522-19-0 EC-No.: 919-029-3 REACH-no: 01-2119457735- 29	≥ 30 - < 50	Asp. Tox. 1, H304
DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC substance with national workplace exposure limit(s) (AT, BE, CZ, DE, EE, ES, FI, FR, GB, GR, HR, IE, IT, LV, NL, PL, PT, SI, CH); substance with a Community workplace exposure limit	CAS-No.: 64742-54-7 EC-No.: 265-157-1 REACH-no: 01-2119484627- 25	< 1	Not classified
Amines, C10-C14-tert-alkyl	CAS-No.: 68955-53-3 EC-No.: 701-175-2 REACH-no: 01-2119456798- 18	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

: Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse.

First-aid measures after eve contact

: Rinse eves with water as a precaution. Remove contact lenses, if present and easy to do

First-aid measures after eye contact : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do.

Continue rinsing.

First-aid measures after ingestion : Do not induce vomiting. Get immediate medical advice/attention. Rinse mouth. Self protection of the first-aider : First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects after inhalation : None under normal conditions.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : None under normal conditions.

Symptoms/effects after ingestion : Swallowing the liquid may cause aspiration into the lungs with the risk of chemical

pneumonitis.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard. Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. See section 8 of the SDS for more information on personal

protective equipment.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to

prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local

legislation. Absorb spilled material with sand or earth.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

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Storage conditions : Store locked up.

Packaging materials : Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA 5 mg/m³		
France - Occupational Exposure Limits		
VME (OEL TWA) 5 mg/m³		

DNEL and PNEC

DNEL and PNEC			
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC (64741-88-4)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	2.73 mg/m³		
Long-term - local effects, inhalation	5.58 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	0.74 mg/kg bodyweight/day		
PNEC (Oral)			
PNEC oral (secondary poisoning)	9.33 mg/kg food		
Amines, C10-C14-tert-alkyl (68955-53-3)			
DNEL/DMEL (Workers)	DNEL/DMEL (Workers)		
Long-term - systemic effects, inhalation	12.5 mg/m³		
Long-term - local effects, inhalation	12.1 mg/m³		
DNEL/DMEL (General population)	DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.35 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	2.5 mg/m³		
Long-term - local effects, inhalation	1.2 mg/m³		
PNEC (Water)			
PNEC aqua (freshwater)	0.001 mg/l		
PNEC aqua (marine water)	0.0001 mg/l		
PNEC aqua (intermittent, freshwater)	0.004 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	2.14 mg/kg dwt		
PNEC sediment (marine water)	0.214 mg/kg dwt		

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Amines, C10-C14-tert-alkyl (68955-53-3)		
PNEC (Soil)		
PNEC soil	0.428 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	4.71 mg/kg food	
PNEC (STP)		
PNEC sewage treatment plant	0.635 mg/l	
DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2.73 mg/m³	
Long-term - local effects, inhalation	5.58 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.74 mg/kg bodyweight/day	
PNEC (Oral)		
PNEC oral (secondary poisoning)	9.33 mg/kg food	

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):







Eye and face protection

Eye protection:

Safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour Not available Not available Odour Not available Odour threshold Not applicable Melting point Freezing point Not available Boiling point Not available Flammability : Non flammable. Lower explosion limit : Not available Upper explosion limit : Not available : > 150 °C Flash point Auto-ignition temperature Not available : Not available Decomposition temperature рΗ : Not available Viscosity, kinematic : 10 mm²/s @40oC

Solubility Insoluble Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : 0.83 @15oC Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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Solicy S	Hydrocarbons, C16-C20, n-alkanes, isoalkane	es. cyclics. (1174522-19-0)
Toxicity		
Toxicity)	LD50 oral rat	
Amines, C10-C14-tert-alkyl (68955-53-3) LD50 dermal rat 251 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% Ct. 190 - 322 DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7) LD50 oral rat > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) LD50 dermal rabbit > 5000 mg/kg LC50 Inhaistion - Rat (Dust/Mist) > 553 mg/l/4h Situ corrosion/irritation Not classified	LD50 dermal rabbit	
Districtates PetroLeum Hydrocarbons Petroluga	LC50 Inhalation - Rat	> 5.266 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7) LD50 oral rat - 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) LD50 dermal rabbit - 5000 mg/kg LC50 Inhalation - Rat (Dust/Mist) - 5.53 mg/l/4h Skin corrosion/irritation - Not classified Respiratory or skin sensitisation - Not classified Respiratory -	Amines, C10-C14-tert-alkyl (68955-53-3)	
Stop or a l'at Stop	LD50 dermal rat	,
Toxicity	DISTILLATES (PETROLEUM) HYDROTREATE	D HEAVY PARAFFINIC (64742-54-7)
LC50 Inhalation - Rat (Dust/Mist) Skin corrosion/irritation Skin corrosion/irritation Skin corrosion/irritation Not classified Serious eye damage/irritation Skin sensitisation Not classified Serroducity Not classified Serroducity Not classified Serroducity Skin corrosion/irritation Skin sensitisation Not classified Serroducity Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (animal/female, F0/P) Shin Skin Skin Skin Skin Skin Skin Skin Sk	LD50 oral rat	
Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (animal/female, F0/P)	LD50 dermal rabbit	> 5000 mg/kg
Serious eye damage/irritation : Not classified Sepiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Serious eye damage/irritation : Not classified Serious eye eye damage/irritation : Not classified Serious eye eye eye eye eye eye eye eye eye ey	LC50 Inhalation - Rat (Dust/Mist)	> 5.53 mg/l/4h
Respiratory or skin sensitisation : Not classified Derm cell mutagenicity : Not classified Acrinogenicity : Not classified Reproductive toxicity : Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (animal/female, F0/P) ≥ 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] NOAEL (animal/female, F1) ≥ 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] STOT-single exposure : Not classified STOT-repeated exposure : Not classified Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (oral, rat, 90 days) ≥ 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEL (dermal, rat/rabbit, 90 days) ≥ 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 2 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 2 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 3 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Skin corrosion/irritation :	Not classified
Serm cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (animal/female, F0/P) ≥ 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] NOAEL (animal/female, F1) ≥ 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] STOT-single exposure : Not classified Tot-repeated exposure : Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (oral, rat, 90 days) ≥ 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEL (dermal, rat/rabbit, 90 days) ≥ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 20.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) Aspiration hazard : May be fatal if swallowed and enters airways. Millmax ZF 10 Viscosity, kinematic 10 mm²/s @40oC Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) Viscosity, kinematic 4-6 mm²/s @40oC	Serious eye damage/irritation :	Not classified
Serm cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (animal/female, F0/P) ≥ 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] NOAEL (animal/female, F1) ≥ 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] STOT-single exposure : Not classified Tot-repeated exposure : Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (oral, rat, 90 days) ≥ 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEL (dermal, rat/rabbit, 90 days) ≥ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 20.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) Aspiration hazard : May be fatal if swallowed and enters airways. Millmax ZF 10 Viscosity, kinematic 10 mm²/s @40oC Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) Viscosity, kinematic 4-6 mm²/s @40oC	Respiratory or skin sensitisation	Not classified
Carcinogenicity : Not classified Reproductive toxicity : Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (animal/female, F0/P) ≥ 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] NOAEL (animal/female, F1) ≥ 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] STOT-single exposure : Not classified STOT-repeated exposure : Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (oral, rat, 90 days) ≥ 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEL (dermal, rat/rabbit, 90 days) ⇒ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEC (inhalation, rat, dust/mist/fume, 90 days) ≥ 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) ⇒ 0.99 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) ⇒ 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEC (inhalation, rat, dust/mist/fume, 90 days) ⇒ 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEC (inhalation, rat, dust/mist/fume, 90 days) ⇒ 0.98 mg/l air Animal: rat, Guideline: OECD Guideli	Germ cell mutagenicity :	Not classified
Reproductive toxicity : Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (animal/female, F0/P)		Not classified
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (animal/female, F0/P) 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] NOAEL (animal/female, F1) 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] STOT-single exposure Not classified		
A15 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] NOAEL (animal/female, F1) ≥ 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] STOT-single exposure : Not classified STOT-repeated exposure : Not classified Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) NOAEL (oral, rat, 90 days) ≥ 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEL (dermal, rat/rabbit, 90 days) ⇒ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEC (inhalation, rat, dust/mist/fume, 90 days) Aspiration hazard : May be fatal if swallowed and enters airways. Millmax ZF 10 Viscosity, kinematic 10 mm²/s @40oC Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) Viscosity, kinematic 4 − 6 mm²/s @40oC	•	
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90-Day Oral Toxicity Study in Rodents) NOAEL (dermal, rat/rabbit, 90 days) > 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEC (inhalation, rat, dust/mist/fume, 90 days) > 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) Aspiration hazard : May be fatal if swallowed and enters airways. Millmax ZF 10 Viscosity, kinematic 10 mm²/s @40oC Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) Viscosity, kinematic 4 - 6 mm²/s @40oC	Hydrocarbons, C16-C20, n-alkanes, isoalkane	es, cyclics, (1174522-19-0)
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28-Day Study) Aspiration hazard : May be fatal if swallowed and enters airways. Millmax ZF 10 Viscosity, kinematic 10 mm²/s @40oC Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) Viscosity, kinematic 4 – 6 mm²/s @40oC	LOAEL (oral, rat, 90 days)	
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Viscosity, kinematic 10 mm²/s @40oC Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) Viscosity, kinematic 4 - 6 mm²/s @40oC	Aspiration hazard :	May be fatal if swallowed and enters airways.
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0) Viscosity, kinematic 4 - 6 mm²/s @40oC	Millmax ZF 10	
Viscosity, kinematic 4 – 6 mm²/s @40oC	Viscosity, kinematic	10 mm²/s @40oC
	Hydrocarbons, C16-C20, n-alkanes, isoalkane	es, cyclics, (1174522-19-0)
Amines, C10-C14-tert-alkyl (68955-53-3)	Viscosity, kinematic	4 – 6 mm²/s @40oC
	Amines, C10-C14-tert-alkyl (68955-53-3)	
Viscosity, kinematic ≈ 3.44 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'	Viscosity, kinematic	≈ 3.44 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'

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DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7)	
Viscosity, kinematic	15 – 21 mm²/s @40oC

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

Not classified

Hazardous to the aquatic environment, long-term

: Not classified (chronic)

Amines, C10-C14-tert-alkyl (68955-53-3) 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo LC50 - Fish [1] gairdneri) EC50 - Crustacea [1] 0.24 - 6 mg/l Test organisms (species): Daphnia magna EC50 72h - Algae [1] 0.44 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) 0.078 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo NOEC chronic fish gairdneri) Duration: '96 d'

12.2. Persistence and degradability

Millmax ZF 10		
Persistence and degradability	Not established.	
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, (1174522-19-0)		
Persistence and degradability Not rapidly degradable		
Amines, C10-C14-tert-alkyl (68955-53-3)		
Persistence and degradability Not rapidly degradable		
DISTILLATES (PETROLEUM) HYDROTREATED HEAVY PARAFFINIC (64742-54-7)		
Persistence and degradability	Not rapidly degradable	

12.3. Bioaccumulative potential

Millmax ZF 10	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information

HP Code

- : Disposal must be done according to official regulations.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Disposal must be done according to official regulations.
- Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Avoid release to the

environment.

: Do not re-use empty containers.

: HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
Not regulated for transport				
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard o	14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information	n available			

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

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Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acr	Abbreviations and acronyms:		
ACGIH	American Conference of Government Industrial Hygienists		
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		
ATE	Acute Toxicity Estimate		
BCF Bioconcentration factor			
BLV	Biological limit value		

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Abbreviations and acr	onyms:
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds

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Abbreviations and acronyms:	
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Full text of H- and EUH-statements:	
Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Sens. 1A	Skin sensitisation, category 1A
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains Amines, C10-C14-tert-alkyl(68955-53-3). May produce an allergic reaction.

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.