

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 31 August 2023

Revision Date 27 February 2024

Revision Number 2

EGHS / English

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name Rislone Gas Fuel Treatment- Right Side
Product Code 44700
UFI RQSY-N31C-Q00N-4G1E

Chemical name

Contains Petroleum distillates, hydrotreated heavy paraffinic, Petroleum distillates, hydrotreated light paraffinic, Petroleum naphtha, light aromatic, 1,2,4 Trimethylbenzene

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

Recommended Use Fuel additive.
Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier Name Rislone Nordic AB
Address BOX 83
443 22 Partille, Sweden
Telefon +46-(0)31 555088
E-mail support@rislonenordic.com
Support Department
Website www.rislone.se



For further information, please contact.

1.4. Emergency telephone number

ChemTel Inc.
(800) 255-3924 (North America)
+1 (813) 248-0585 (International)

Emergency telephone

No information available

Emergency telephone §45 - (EC)1272/2008	
Europe	112
Country	Emergency Telephone Number
Europe	
Austria	
Belgium	
Denmark	
Finland	
France	
Germany	
Ireland	
Italy	
Netherlands	
Norway	
Poland	
Portugal	
Spain	
Sweden	
Switzerland	
United Kingdom	
Manufacturer	

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Germ cell mutagenicity	Category 1B - (H340)
Carcinogenicity	Category 1B - (H350)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Contains Petroleum distillates, hydrotreated heavy paraffinic, Petroleum distillates, hydrotreated light paraffinic, Petroleum naphtha, light aromatic, 1,2,4 Trimethylbenzene



Signal word

Danger

Hazard Statements

H340 - May cause genetic defects

H350 - May cause cancer

H412 - Harmful to aquatic life with long lasting effects Contains Petroleum naphtha, light aromatic

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P273 - Avoid release to the environment

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

May be harmful if swallowed

Causes mild skin irritation

Harmful to aquatic life

Combustible liquid

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Not applicable.

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Petroleum distillates, hydrotreated heavy paraffinic	265-157-1	64742-54-7	61.5453	Carc. 1B (H350)	No data available
Petroleum distillates, hydrotreated light paraffinic	265-158-7	64742-55-8	33.1398	Carc. 1B (H350)	No data available
Third Party Formulation (TP # 1548281)	Listed	-	0 - 10%	Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	No data available
Third Party Formulation (TP # 1548281)	No information available	-	0 - 10%	Skin Irrit. 2 (H315)	No data available
3rd Party %: 0.084 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.82544 (Third Party Formulation (TP # 1548281))	No information available	-	0 - 10%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
3rd Party %: 0.616735 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.0705 (Third Party Formulation (TP # 1521267))	Listed	-	0 - 10%	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) STOT SE 3 (H335) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	No data available
Third Party Formulation (TP # 1548281)	Listed	-	0 - 10%	Flam. Liq. 3 (H226) STOT SE 3 (H335) Aquatic Chronic 2 (H411)	No data available
Third Party Formulation (TP # 1521267)	Listed	-	0 - 10%	Muta. 1B (H340) Carc. 1B (H350)	No data available

				Asp. Tox. 1 (H304)	
Third Party Formulation (TP # 1548281)	Listed	-	0 - 10%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT SE 3 (H335)	No data available
Third Party Formulation (TP # 1548281)	Listed	-	0 - 10%	Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %: 7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))	Listed	-	0 - 10%	Flam. Liq. 3 (H226) STOT SE 3 (H335) Carc. 1B (H350) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)	No data available
Third Party Formulation (TP # 1710646)	Listed	-	0 - 10%	Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	No data available
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party %: 5e-007 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))	Listed	-	0 - 10%	Flam. Liq. 2 (H225) STOT RE 2 (H373) Asp. Tox. 1 (H304) Acute Tox. 4 (H332)	No data available
3rd Party %: 0.002345 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.00045 (Third Party Formulation (TP # 1521267))	Listed	-	0 - 10%	Acute Tox. 4 (H302) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Third Party Formulation (TP # 1548281)	Listed	-	0 - 10%	Skin Irrit. 2 (H315) Flam. Liq. 2 (H225) STOT RE 1 (H372) Muta. 1B (H340) Carc. 1A (H350) Asp. Tox. 1 (H304) Eye Irrit. 2 (H319)	No data available
Third Party Formulation (TP # 1521267)	Listed	-	0 - 10%	Skin Irrit. 2 (H315) Flam. Liq. 2 (H225) STOT RE 1 (H372) Muta. 1B (H340) Carc. 1A (H350) Asp. Tox. 1 (H304) Eye Irrit. 2 (H319)	No data available
Third Party Formulation (TP # 1710646)	Listed	-	0 - 10%	Skin Irrit. 2 (H315) Flam. Liq. 2 (H225) Repr. 2 (H361d) STOT RE 2 (H373) STOT SE 3 (H336) Asp. Tox. 1 (H304)	No data available
Third Party Formulation (TP # 1548281)	Listed	-	0 - 10%	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314)	No data available

3rd Party %: 1.876e-005 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	Listed	-	0 - 10%	Acute Tox. 4 (H302) (EUH019) Skin Irrit. 2 (H315) Flam. Liq. 1 (H224) STOT RE 2 (H373) Muta. 2 (H341) Carc. 1B (H350) Acute Tox. 4 (H332) Aquatic Chronic 3 (H412)	No data available
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	Listed	-	0 - 10%	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Flam. Liq. 1 (H224) STOT SE 3 (H335) Muta. 1B (H340) Carc. 1B (H350) Acute Tox. 3 (H331) Eye Irrit. 2 (H319)	No data available
Third Party Formulation (TP # 1548281)	Listed	-	0 - 10%	Flam. Liq. 1 (H224) STOT SE 3 (H335) Muta. 2 (H341) Carc. 1B (H350) Eye Irrit. 2 (H319)	No data available
Third Party Formulation (TP # 1548281)	Listed	-	0 - 10%	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) STOT RE 2 (H373) Muta. 2 (H341) Acute Tox. 3 (H331)	No data available

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

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms No information available.

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

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES**5.1. Extinguishing media**

Suitable Extinguishing Media Dry chemical, Carbon dioxide (CO₂), Water spray, Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture**Specific hazards arising from the chemical**

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Hazardous Combustion Products

Carbon oxides.

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other Information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Advice on safe handling Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Do not breathe vapor or mist. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up.

7.3. Specific end use(s)

Identified uses

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Exposure Limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
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3rd Party %: 0.616735 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.0705 (Third Party Formulation (TP # 1521267))	TWA 20 ppm TWA 100 mg/m ³	-	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³
Third Party Formulation (TP # 1548281)	TWA 20 ppm TWA 100 mg/m ³	-	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³
Third Party Formulation (TP # 1548281)	-	STEL: 3 ppm STEL: 16.2 mg/m ³ TWA: 1 ppm TWA: 5.4 mg/m ³	TWA: 1 ppm TWA: 5.4 mg/m ³	TWA: 1 ppm TWA: 1.54 mg/m ³	TWA: 10 ppm TWA: 54 mg/m ³
Third Party Formulation (TP # 1548281)	TWA 20 ppm TWA 100 mg/m ³	-	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %: 7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))	-	STEL: 50 ppm STEL: 250 mg/m ³ TWA: 25 ppm TWA: 125 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ * STEL: 50 ppm STEL: 250 mg/m ³	vía dérmica* STEL: 50 ppm STEL: 250 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ S*
Third Party Formulation (TP # 1710646)	: TWA: 221 mg/m ³ TWA: 50 ppm STEL: 100 ppm STEL: 442 mg/m ³	STEL: 100 ppm STEL: 441 mg/m ³ TWA: 220 mg/m ³ TWA: 50 ppm Skin	VME: 221 mg/m ³ VME: 50 ppm VLCT: 100 ppm VLCT: 442 mg/m ³	S* VLA-EC: 100 ppm VLA-EC; 442 mg/m ³ VLA-ED: 50 ppm VLA-ED; 221 mg/m ³	TWA: 50 ppm TWA: 220 mg/m ³ S*
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party %: 5e-007 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))	: TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³	STEL: 125 ppm STEL: 552 mg/m ³ TWA: 100 ppm TWA: 441 mg/m ³ Skin	VME: 88.4 mg/m ³ VME: 20 ppm VLCT: 100 ppm VLCT: 442 mg/m ³	S* VLA-EC: 200 ppm VLA-EC; 884 mg/m ³ VLA-ED: 100 ppm VLA-ED; 441 mg/m ³	TWA: 20 ppm TWA: 88 mg/m ³ S*
3rd Party %: 0.002345 (Third Party Formulation (TP # 1548281)), 3rd Party	TWA 10 ppm TWA 50 mg/m ³	-	TWA: 10 ppm TWA: 50 mg/m ³	vía dérmica* STEL: 15 ppm STEL: 80 mg/m ³ TWA: 10 ppm	TWA: 0.4 ppm TWA: 2 mg/m ³ S*

%: 0.00045 (Third Party Formulation (TP # 1521267))				TWA: 53 mg/m ³	
Third Party Formulation (TP # 1548281)	S* TWA 0.2 ppm limit value 1 ppm or 3.25 mg/m ³ until 5 April 2024; limit value 0.5 ppm or 1.65 mg/m ³ from 5 April 2024 until 5 April 2026 TWA 0.66 mg/m ³ limit value 1 ppm or 3.25 mg/m ³ until 5 April 2024; limit value 0.5 ppm or 1.65 mg/m ³ from 5 April 2024 until 5 April 2026	STEL: 3 ppm STEL: 9.75 mg/m ³ TWA: 1 ppm TWA: 3.25 mg/m ³ Sk*	TWA: 1 ppm TWA: 3.25 mg/m ³ * STEL: 1500 mg/m ³	vía dérmica* TWA: 1 ppm TWA: 3.25 mg/m ³	-
Third Party Formulation (TP # 1521267)	S* TWA 0.2 ppm limit value 1 ppm or 3.25 mg/m ³ until 5 April 2024; limit value 0.5 ppm or 1.65 mg/m ³ from 5 April 2024 until 5 April 2026 TWA 0.66 mg/m ³ limit value 1 ppm or 3.25 mg/m ³ until 5 April 2024; limit value 0.5 ppm or 1.65 mg/m ³ from 5 April 2024 until 5 April 2026	STEL: 3 ppm STEL: 9.75 mg/m ³ TWA: 1 ppm TWA: 3.25 mg/m ³ Sk*	TWA: 1 ppm TWA: 3.25 mg/m ³ * STEL: 1500 mg/m ³	vía dérmica* TWA: 1 ppm TWA: 3.25 mg/m ³	-
Third Party Formulation (TP # 1710646)	TWA: 50 ppm TWA: 192 mg/m ³ Skin	STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 191 mg/m ³ Sk*	TWA: 20 ppm TWA: 76.8 mg/m ³ * STEL: 100 ppm STEL: 384 mg/m ³	vía dérmica* STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 192 mg/m ³	TWA: 50 ppm TWA: 190 mg/m ³ S*
Third Party Formulation (TP # 1548281)	-	-	-	-	TWA: 1 ppm TWA: 4.5 mg/m ³ S*
3rd Party %: 1.876e-005 (Third Party Formulation (TP # 1548281)), 3rd Party	-	-	-	-	TWA: 0.02 ppm TWA: 0.056 mg/m ³ S*

%: 4.5e-006 (Third Party Formulation (TP # 1521267))					
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	TWA 2.4 mg/m ³ TWA 1 ppm	STEL: 15 ppm STEL: 36 mg/m ³ TWA: 12 mg/m ³ TWA: 5 ppm	TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³
Third Party Formulation (TP # 1548281)	-	STEL: 50 ppm STEL: 92 mg/m ³ TWA: 20 ppm TWA: 37 mg/m ³	TWA: 100 ppm TWA: 180 mg/m ³	STEL: 25 ppm STEL: 46 mg/m ³	TWA: 50 ppm TWA: 91 mg/m ³
Third Party Formulation (TP # 1548281)	S* TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³	STEL: 4 ppm STEL: 16 mg/m ³ TWA: 2 ppm TWA: 7.8 mg/m ³ Sk*	TWA: 2 ppm TWA: 7.8 mg/m ³ * STEL: 4 ppm STEL: 15.6 mg/m ³	vía dérmica* STEL: 4 ppm STEL: 16 mg/m ³ TWA: 2 ppm TWA: 8 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ S*
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
3rd Party %: 0.616735 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.0705 (Third Party Formulation (TP # 1521267))	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	STEL: 40 ppm STEL: 200 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³
Third Party Formulation (TP # 1548281)	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	-	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³
Third Party Formulation (TP # 1548281)	TWA: 5.4 mg/m ³ TWA: 1 ppm	TWA: 5.4 mg/m ³ TWA: 1 ppm	TWA: 1 ppm TWA: 5.4 mg/m ³	TWA: 1 ppm TWA: 5.4 mg/m ³	TWA: 1 ppm TWA: 5.4 mg/m ³
Third Party Formulation (TP # 1548281)	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	STEL: 40 ppm STEL: 200 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %: 7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ pelle*	STEL: 50 ppm STEL: 250 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³ P*	H* STEL: 50 ppm STEL: 250 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ iho*	TWA: 10 ppm TWA: 50 mg/m ³ H*

Third Party Formulation (TP # 1710646)	TWA: 221 mg/m ³ TWA: 50 ppm STEL: 100 ppm STEL: 442 mg/m ³ Skin	STEL: 150 ppm TWA: 100 ppm	Skin STEL: 100 ppm STEL; 442 mg/m ³ STEL MAC: 50 ppm MAC; 210 mg/m ³ MAC	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 100 ppm STEL: 440 mg/m ³ Skin	TWA: 109 mg/m ³ TWA: 25 ppm Skin
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party %: 5e-007 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ Skin	STEL: 125 ppm TWA: 100 ppm	Skin STEL: 100 ppm STEL; 430 mg/m ³ STEL MAC: 50 ppm MAC; 215 mg/m ³ MAC	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 880 mg/m ³ STEL: 200 ppm Skin	TWA: 217 mg/m ³ TWA: 50 ppm
3rd Party %: 0.002345 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.00045 (Third Party Formulation (TP # 1521267))	-	STEL: 15 ppm TWA: 10 ppm TWA: 50 mg/m ³ P*	STEL: 16 ppm STEL: 80 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³	TWA: 1 ppm TWA: 5 mg/m ³ STEL: 2 ppm STEL: 10 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³
Third Party Formulation (TP # 1548281)	TWA: 3.25 mg/m ³ TWA: 1 ppm pelle*	STEL: 2.5 ppm TWA: 1 ppm TWA: 3.25 mg/m ³ P*	H* TWA: 0.2 ppm TWA: 0.7 mg/m ³	TWA: 1 ppm TWA: 3.25 mg/m ³ iho*	TWA: 0.5 ppm TWA: 1.6 mg/m ³ H*
Third Party Formulation (TP # 1521267)	TWA: 3.25 mg/m ³ TWA: 1 ppm pelle*	STEL: 2.5 ppm TWA: 1 ppm TWA: 3.25 mg/m ³ P*	H* TWA: 0.2 ppm TWA: 0.7 mg/m ³	TWA: 1 ppm TWA: 3.25 mg/m ³ iho*	TWA: 0.5 ppm TWA: 1.6 mg/m ³ H*
Third Party Formulation (TP # 1710646)	TWA: 50 ppm TWA: 192 mg/m ³ pelle*	STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 192 mg/m ³ P*	STEL: 100 ppm STEL: 384 mg/m ³ TWA: 39 ppm TWA: 150 mg/m ³	TWA: 25 ppm TWA: 81 mg/m ³ STEL: 100 ppm STEL: 380 mg/m ³ iho*	TWA: 25 ppm TWA: 94 mg/m ³ H*
Third Party Formulation (TP # 1548281)	-	TWA: 5 ppm P*	-	TWA: 5 ppm TWA: 22 mg/m ³ STEL: 10 ppm STEL: 45 mg/m ³ iho*	TWA: 5 ppm TWA: 22 mg/m ³ H*
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	TWA: 2.4 mg/m ³ TWA: 1 ppm	TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³ iho*	TWA: 1 ppm TWA: 2.4 mg/m ³ H*
Third Party	-	Ceiling: 25 ppm	STEL: 50 ppm	STEL: 25 ppm	Ceiling: 25 ppm

Formulation (TP # 1548281)			STEL: 92 mg/m ³ TWA: 20 ppm TWA: 37 mg/m ³	STEL: 46 mg/m ³	Ceiling: 45 mg/m ³
Third Party Formulation (TP # 1548281)	TWA: 2 ppm TWA: 8.0 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ pelle*	STEL: 4 ppm STEL: 16 mg/m ³ TWA: 2 ppm TWA: 8 mg/m ³ P*	H* TWA: 2 ppm TWA: 8 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ iho*	TWA: 1 ppm TWA: 4 mg/m ³ H*
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
3rd Party %: 0.616735 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.0705 (Third Party Formulation (TP # 1521267))	STEL 30 ppm STEL 150 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³	-	STEL: 170 mg/m ³ TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 150 mg/m ³ STEL: 30 ppm	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 60 ppm STEL: 300 mg/m ³
Third Party Formulation (TP # 1548281)	STEL 30 ppm STEL 150 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³	-	STEL: 170 mg/m ³ TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 150 mg/m ³ STEL: 30 ppm	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 60 ppm STEL: 300 mg/m ³
Third Party Formulation (TP # 1548281)	STEL 2 ppm STEL 10.8 mg/m ³ TWA: 1 ppm TWA: 5.4 mg/m ³	TWA: 1 ppm TWA: 5.4 mg/m ³	STEL: 10.8 mg/m ³ TWA: 5.4 mg/m ³	TWA: 1 ppm TWA: 5.4 mg/m ³ STEL: 10 ppm STEL: 54 mg/m ³	TWA: 1 ppm TWA: 5.4 mg/m ³ STEL: 3 ppm STEL: 16.2 mg/m ³
Third Party Formulation (TP # 1548281)	STEL 30 ppm STEL 150 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³	-	STEL: 170 mg/m ³ TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 150 mg/m ³ STEL: 30 ppm	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 60 ppm STEL: 300 mg/m ³ Sk*
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %: 7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))	H* STEL 50 ppm STEL 250 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³	H* STEL: 80 ppm STEL: 400 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³	STEL: 250 mg/m ³ TWA: 50 mg/m ³	TWA: 50 mg/m ³ TWA: 10 ppm H* STEL: 250 mg/m ³ STEL: 50 ppm	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*
Third Party Formulation (TP # 1710646)	Skin STEL 100 ppm STEL; 442 mg/m ³ STEL (all isomers) MAK: 50 ppm MAK; 221 mg/m ³ MAK (all isomers)	Skin STEL: 200 ppm STEL; 870 mg/m ³ STEL MAK: 100 ppm MAK; 435 mg/m ³ MAK	NDSch: 350 mg/m ³ NDS: 100 mg/m ³	TWA: 108 mg/m ³ TWA: 25 ppm Skin STEL: 135 mg/m ³ STEL: 37.5 ppm	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Sk*
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party	Skin STEL 200 ppm STEL; 880 mg/m ³ STEL	Skin STEL: 100 ppm STEL (15 min); 435 mg/m ³ STEL	NDSch: 350 mg/m ³ NDS: 100 mg/m ³ Skin	TWA: 20 mg/m ³ TWA: 5 ppm Skin STEL: 10 ppm	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³

%: 5e-007 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))	MAK: 100 ppm MAK; 440 mg/m ³ MAK	(15 min) MAK: 100 ppm MAK; 435 mg/m ³ MAK		STEL: 30 mg/m ³	Sk*
3rd Party %: 0.002345 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.00045 (Third Party Formulation (TP # 1521267))	H* TWA: 10 ppm TWA: 50 mg/m ³	H* TWA: 10 ppm TWA: 50 mg/m ³	STEL: 50 mg/m ³ TWA: 20 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 20 ppm STEL: 75 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 30 ppm STEL: 150 mg/m ³
Third Party Formulation (TP # 1548281)	H*	H* TWA: 0.2 ppm TWA: 0.7 mg/m ³	TWA: 1.6 mg/m ³	TWA: 0.2 ppm TWA: 0.66 mg/m ³ H* STEL: 0.6 ppm STEL: 1.98 mg/m ³	TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 3 ppm STEL: 9.75 mg/m ³ Sk*
Third Party Formulation (TP # 1521267)	H*	H* TWA: 0.2 ppm TWA: 0.7 mg/m ³	TWA: 1.6 mg/m ³	TWA: 0.2 ppm TWA: 0.66 mg/m ³ H* STEL: 0.6 ppm STEL: 1.98 mg/m ³	TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 3 ppm STEL: 9.75 mg/m ³ Sk*
Third Party Formulation (TP # 1710646)	H* STEL 100 ppm STEL 380 mg/m ³ TWA: 50 ppm TWA: 190 mg/m ³	H* STEL: 200 ppm STEL: 760 mg/m ³ TWA: 50 ppm TWA: 190 mg/m ³	STEL: 200 mg/m ³ TWA: 100 mg/m ³	TWA: 25 ppm TWA: 94 mg/m ³ H* STEL: 37.5 ppm STEL: 141 mg/m ³	TWA: 192 mg/m ³ TWA: 50 ppm STEL: 384 mg/m ³ STEL: 100 ppm Sk*
Third Party Formulation (TP # 1548281)	H* STEL 10 ppm STEL 44 mg/m ³ TWA: 5 ppm TWA: 22 mg/m ³	-	TWA: 22 mg/m ³	-	-
3rd Party %: 1.876e-005 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	-	H* STEL: 0.04 ppm STEL: 0.11 mg/m ³ TWA: 0.02 ppm TWA: 0.06 mg/m ³	STEL: 0.1 mg/m ³ TWA: 0.05 mg/m ³	-	-
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	STEL 4 ppm STEL 8 mg/m ³ TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 2.5 ppm TWA: 6 mg/m ³	TWA: 2.4 mg/m ³	TWA: 1 ppm TWA: 2 mg/m ³ H* STEL: 3 ppm STEL: 4 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³ STEL: 3 ppm STEL: 7.2 mg/m ³
Third Party Formulation (TP #	STEL 50 ppm STEL 90 mg/m ³	STEL: 50 ppm STEL: 90 mg/m ³	ceiling: 45 mg/m ³	TWA: 25 ppm TWA: 45 mg/m ³	STEL: 25 ppm STEL: 45 mg/m ³

1548281)	TWA: 50 ppm TWA: 90 mg/m ³ Ceiling 50 ppm Ceiling 90 mg/m ³	TWA: 90 mg/m ³ TWA: 50 ppm		STEL: 37.5 ppm STEL: 67.5 mg/m ³	
Third Party Formulation (TP # 1548281)	H* STEL 4 ppm STEL 16 mg/m ³ TWA: 2 ppm TWA: 8 mg/m ³	H* STEL: 5 ppm STEL: 19 mg/m ³ TWA: 5 ppm TWA: 19 mg/m ³	STEL: 16 mg/m ³ TWA: 7.8 mg/m ³	TWA: 1 ppm TWA: 4 mg/m ³ H* STEL: 3 ppm STEL: 12 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ Sk*

Biological occupational exposure limits

Chemical name	European Union	United Kingdom	France	Spain	Germany
3rd Party %: 0.616735 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.0705 (Third Party Formulation (TP # 1521267))	-	-	600 mg/g creatinine - urine (Total Dimethylbenzoic acids (after hydrolysis) in urine) - end of shift after several shifts Urine : 600 mg/g creatinine	-	400 mg/g Creatinine - urine (Dimethylbenzoic acid (sum of all isomers after hydrolysis)) - end of shift 400 mg/g Creatinine - urine (Dimethylbenzoic acid (sum of all isomers after hydrolysis)) - for long-term exposures: at the end of the shift after several shifts
Third Party Formulation (TP # 1548281)	-	-	600 mg/g creatinine - urine (Total Dimethylbenzoic acids (after hydrolysis)) - end of shift after several shifts Urine : 600 mg/g creatinine	-	400 mg/g Creatinine - urine (Dimethylbenzoic acid (sum of all isomers after hydrolysis)) - end of shift 400 mg/g Creatinine - urine (Dimethylbenzoic acid (sum of all isomers after hydrolysis)) - for long-term exposures: at the end of the shift after several shifts
Third Party Formulation (TP # 1548281)	-	-	600 mg/g creatinine - urine (Total Dimethylbenzoic acids (after hydrolysis)) - end	-	400 mg/g Creatinine - urine (Dimethylbenzoic acid (sum of all isomers after hydrolysis)) - end

			of shift after several shifts Urine : 600 mg/g creatinine		of shift 400 mg/g Creatinine - urine (Dimethylbenzoic acid (sum of all isomers after hydrolysis)) - for long-term exposures: at the end of the shift after several shifts
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %: 7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))	-	-	-	7 mg/g Creatinine - urine (2-Phenyl-2-propanol) - end of shift	10 mg/g Creatinine - urine (2-Phenyl-2-propanol (after hydrolysis)) - end of shift
Third Party Formulation (TP # 1710646)	-	650 mmol/mol creatinine - urine (Methyl hippuric acid) - post shift	1500 mg/g creatinine - urine (Methylhippuric acid) - end of shift Urine : 1500 mg/g creatinine	1 g/g Creatinine - urine (Methylhippuric acids) - end of shift	2000 mg/L - urine (Methylhippuric(tolur)-acid (all isomers)) - end of shift
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party %: 5e-007 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))	-	-	1500 mg/g creatinine - urine (Mandelic acid) - end of shift at end of workweek Urine : 1500 mg/g creatinine	700 mg/g Creatinine - urine (Mandelic acid plus Phenylglyoxylic acid) - end of workweek	250 mg/g Creatinine - urine (Mandelic acid plus Phenylglyoxylic acid) - end of shift
Third Party Formulation (TP # 1548281)	-	-	5 mg/L - urine (Muconic acid) - end of shift Urine : 5 mg/L	0.045 mg/g Creatinine - urine (S-Phenyl mercapturic acid) - end of exposure or end of shift 2 mg/L - urine (trans, trans-Muconic acid) - end of exposure or end of shift	-
Third Party Formulation (TP #	-	-	5 mg/L - urine (Muconic acid) -	0.045 mg/g Creatinine - urine	-

1521267)			end of shift Urine : 5 mg/L	(S-Phenyl mercapturic acid) - end of exposure or end of shift 2 mg/L - urine (trans, trans-Muconic acid) - end of exposure or end of shift	
Third Party Formulation (TP # 1710646)	-	-	1 mg/L - venous blood (Toluene) - end of shift 2500 mg/g creatinine - urine (Hippuric acid) - end of shift Urine : 2500 mg/g creatinine	0.6 mg/L - urine (o-Cresol) - end of shift 0.05 mg/L - blood (Toluene) - start of last shift of workweek 0.08 mg/L - urine (Toluene) - end of shift	600 µg/L - whole blood (Toluene) - immediately after exposure 75 µg/L - urine (Toluene) - end of shift 1.5 mg/L - urine (o-Cresol (after hydrolysis)) - for long-term exposures: at the end of the shift after several shifts 1.5 mg/L - urine (o-Cresol (after hydrolysis)) - end of shift
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	-	-	-	-	2500 pmol/g Globin - erythrocytes (N-(2-Hydroxypro- pyl)valine) - after at least 3 months exposure
Third Party Formulation (TP # 1548281)	-	-	250 mg/g creatinine - urine (Total Phenol) - end of shift Urine : 250 mg/g creatinine	120 mg/g Creatinine - urine () - end of shift	120 mg/g Creatinine - urine (Phenol (after hydrolysis)) - end of shift
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Third Party Formulation (TP # 1710646)	-	-	-	5.0 mmol/L - urine (Methylhippuric acid) - after the shift	-
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party %: 5e-007 (Third Party Formulation (TP #	-	-	-	5.2 mmol/L - urine (Mandelic acid) - after the shift after a working week or exposure period	-

1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))					
Third Party Formulation (TP # 1710646)	-	-	-	500 nmol/L - blood (Toluene) - in the morning after a working day	-
Third Party Formulation (TP # 1548281)	-	-	-	1.3 mmol/L - urine (Total phenol) - after the shift	-
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %: 7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))	-	20 mg/g creatinine - urine (2-Phenyl-2-propa nol after hydrolysis) - end of shift 16.6 µmol/mmol creatinine - urine (2-Phenyl-2-propa nol after hydrolysis) - end of shift	-	-	-
Third Party Formulation (TP # 1710646)	1.5 g/L (urine - Methylhippuric acid after end of work day, at the end of a work week/end of the shift)	2 g/L - urine (Methylhippuric acid) - end of shift	-	-	1.5 g/g Creatinine (urine - Methylhippuric acids end of shift)
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party %: 5e-007 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))	-	600 mg/g creatinine - urine (Mandelic acid and Phenylglyoxylacid) - end of shift	-	-	0.7 g/g Creatinine (urine - sum of Mandelic acid and Phenylglyoxylic acid end of shift at end of workweek) 0.7 g (end-exhaled air - not critical)
Third Party Formulation (TP # 1548281)	10 g/dL Hemoglobin (blood - by the first screening and once yearly or for work in cokery plants every six months)	8 µg/g creatinine - urine (S-Phenyl-mercaptopuric acid) - end of shift 0.004 µmol/mmol creatinine - urine (S-Phenyl-mercaptopuric acid)	-	-	25 µg/g Creatinine (urine - s-Phenylmercapturic acid end of shift) 500 µg/g Creatinine (urine - t,t-Muconic acid)

	<p>12 g/dL Hemoglobin (blood - by the first screening and once yearly or for work in cokery plants every six months) 79 - 97 fL mean corpuscular volume (blood - by the first screening and once yearly or for work in cokery plants every six months) 3.8 million/μL Erythrocytes (blood - by the first screening and once yearly or for work in cokery plants every six months) 3.2 million/μL Erythrocytes (blood - by the first screening and once yearly or for work in cokery plants every six months) 13000 Leukocytes/μL (blood - by the first screening and once yearly or for work in cokery plants every six months) 4000 Leukocytes/μL (blood - by the first screening and once yearly or for work in cokery plants every six months) 130000 Thrombocytes/μL (blood - by the first screening and</p>	<p>uric acid) - end of shift</p>			<p>end of shift)</p>
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	<p>once yearly or for work in cokery plants every six months) 150000 Thrombocytes/μL (blood - by the first screening and once yearly or for work in cokery plants every six months) 1.6 mg/L (urine - t,t-Muconic acid after end of work day, at the end of a work week/end of the shift)</p>				
<p>Third Party Formulation (TP # 1521267)</p>	<p>10 g/dL Hemoglobin (blood - by the first screening and once yearly or for work in cokery plants every six months) 12 g/dL Hemoglobin (blood - by the first screening and once yearly or for work in cokery plants every six months) 79 - 97 fL mean corpuscular volume (blood - by the first screening and once yearly or for work in cokery plants every six months) 3.8 million/μL Erythrocytes (blood - by the first screening and once yearly or for work in cokery plants every six months) 3.2 million/μL Erythrocytes</p>	<p>8 μg/g creatinine - urine (S-Phenyl-mercapturic acid) - end of shift 0.004 μmol/mmol creatinine - urine (S-Phenyl-mercapturic acid) - end of shift</p>	-	-	<p>25 μg/g Creatinine (urine - s-Phenylmercapturic acid end of shift) 500 μg/g Creatinine (urine - t,t-Muconic acid end of shift)</p>

	<p>(blood - by the first screening and once yearly or for work in cokery plants every six months) 13000 Leukocytes/μL (blood - by the first screening and once yearly or for work in cokery plants every six months) 4000 Leukocytes/μL (blood - by the first screening and once yearly or for work in cokery plants every six months) 130000 Thrombocytes/μL (blood - by the first screening and once yearly or for work in cokery plants every six months) 150000 Thrombocytes/μL (blood - by the first screening and once yearly or for work in cokery plants every six months) 1.6 mg/L (urine - t,t-Muconic acid after end of work day, at the end of a work week/end of the shift)</p>				
Third Party Formulation (TP # 1710646)	<p>10 g/dL Hemoglobin (blood - by the first screening and once yearly) 12 g/dL Hemoglobin (blood - by the first screening and</p>	<p>600 μg/L - whole blood (Toluene) - end of shift 6.48 μmol/L - whole blood (Toluene) - end of shift 2 g/g creatinine - urine (Hippuric</p>	-	-	<p>0.02 mg/L (blood - Toluene prior to last shift of workweek) 0.03 mg/L (urine - Toluene end of shift) 0.3 mg/g Creatinine (urine -</p>

	<p>once yearly) 3.2 million/μL Erythrocytes (blood - by the first screening and once yearly) 3.8 million/μL Erythrocytes (blood - by the first screening and once yearly) 4000 Leukocytes/μL (blood - by the first screening and once yearly) 13000 Leukocytes/μL (blood - by the first screening and once yearly) 130000 Thrombocytes/μL (blood - by the first screening and once yearly) 150000 Thrombocytes/μL (blood - by the first screening and once yearly) 0.8 mg/L (urine - o-Cresol after end of work day, at the end of a work week/end of the shift)</p>	<p>acid) - end of shift, and after several shifts (for long-term exposures) 1.26 mmol/mmol creatinine - urine (Hippuric acid) - end of shift, and after several shifts (for long-term exposures) 0.5 mg/L - urine (o-Cresol) - end of shift, and after several shifts (for long-term exposures) 4.62 μmol/L - urine (o-Cresol) - end of shift, and after several shifts (for long-term exposures) 75 μg/L - urine (Toluol) - end of shift</p>			o-Cresol end of shift)
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	-	3200 pmol/g globin - erythrocytes (N-(2-Hydroxypro- pyl)valine) - no restrictions	-	-	3 nmol/g globin in blood hemoglobin (blood - N-(3-Hydroxyprop- yl) valine)
Third Party Formulation (TP # 1548281)	-	250 mg/g creatinine - urine (Phenol) - end of shift 300.5 μ mol/mmol creatinine - urine (Phenol) - end of shift	-	-	120 mg/g Creatinine (urine - Phenol end of shift)

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Hand Protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Yellow
Odor	Petroleum
Color	No information available
Odor Threshold	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	UNKNOWN	
Melting / freezing point	No data available	None known
Boiling point / boiling range	260 °C	
Flash Point	84 C	
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	.77	
Water Solubility	Immiscible	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known

Autoignition temperature	No data available	
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	1.4	
Explosive properties	No data available	
Oxidizing properties	No data available	

9.2. Other information

Softening Point	No information available
Molecular Weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk Density	No information available
Particle Size	No information available
Particle Size Distribution	No information available

Section 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Remarks No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

Heat, flames and sparks.

Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	Yes.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Information on likely routes of exposure**

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Causes mild skin irritation.
Ingestion	May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document mg/kg mg/L

Unknown acute toxicity

- 98.10692 % of the mixture consists of ingredient(s) of unknown toxicity
 - 34.67155 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
 - 36.56162 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
 - 98.10692 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 - 98.10692 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
 - 98.10692 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
- mg/kg (rat) Estimated ml/m³ Vapor Estimated

Product Information**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated heavy paraffinic	> 15 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Petroleum distillates, hydrotreated light paraffinic	-	-	= 3900 mg/m ³ (Rat) 4 h
Third Party Formulation (TP # 1548281)	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
3rd Party %: 0.616735 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.0705 (Third Party Formulation (TP # 1521267))	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h
Third Party Formulation (TP # 1548281)	-	-	= 24 g/m ³ (Rat) 4 h
Third Party Formulation (TP # 1521267)	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
Third Party Formulation (TP # 1548281)	= 3730 mg/kg (Rat)	= 1980 mg/kg (Rabbit)	> 227 ppm (Rat) 6 h
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %:	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h

7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))			
Third Party Formulation (TP # 1710646)	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party %: 5e-007 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
3rd Party %: 0.002345 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.00045 (Third Party Formulation (TP # 1521267))	= 1110 mg/kg (Rat)	= 1120 mg/kg (Rabbit)	> 0.4 mg/L (Rat) 4 h
Third Party Formulation (TP # 1548281)	= 810 mg/kg (Rat)	> 8200 mg/kg (Rabbit)	= 44.66 mg/L (Rat) 4 h
Third Party Formulation (TP # 1521267)	= 810 mg/kg (Rat)	> 8200 mg/kg (Rabbit)	= 44.66 mg/L (Rat) 4 h
Third Party Formulation (TP # 1710646)	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h
Third Party Formulation (TP # 1548281)	= 121 mg/kg (Rat)	= 1380 mg/kg (Rabbit)	> 1220 mg/m ³ (Rat) 1 h
3rd Party %: 1.876e-005 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	-	-	= 3464 ppm (Rat) 1 h
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	= 520 mg/kg (Rat)	= 1244 mg/kg (Rabbit)	= 9.48 mg/L (Rat) 4 h
Third Party Formulation (TP # 1548281)	= 660 mg/kg (Rat)	= 3540 mg/kg (Rabbit)	= 13000 ppm (Rat) 4 h
Third Party Formulation (TP # 1548281)	= 340 mg/kg (Rat)	= 630 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available

for ingredients. May cause genetic defects.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	European Union
Third Party Formulation (TP # 1548281)	Muta. 1B
Third Party Formulation (TP # 1521267)	Muta. 1B
Third Party Formulation (TP # 1548281)	Muta. 1B
Third Party Formulation (TP # 1521267)	Muta. 1B
3rd Party %: 1.876e-005 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	Muta. 2
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	Muta. 1B
Third Party Formulation (TP # 1548281)	Muta. 2
Third Party Formulation (TP # 1548281)	Muta. 2

Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	European Union
Petroleum distillates, hydrotreated heavy paraffinic	Carc. 1B
Petroleum distillates, hydrotreated light paraffinic	Carc. 1B
Third Party Formulation (TP # 1548281)	Carc. 1B
Third Party Formulation (TP # 1521267)	Carc. 1B
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %: 7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))	Carc. 1B
3rd Party %: 0.002345 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.00045 (Third Party Formulation (TP # 1521267))	Carc. 2
Third Party Formulation (TP # 1548281)	Carc. 1A
Third Party Formulation (TP # 1521267)	Carc. 1A
3rd Party %: 1.876e-005 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	Carc. 1B
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	Carc. 1B
Third Party Formulation (TP # 1548281)	Carc. 1B

Reproductive Toxicity

No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Third Party Formulation (TP # 1710646)	Repr. 2

STOT - single exposure

No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates, hydrotreated heavy paraffinic	No data available	96h LC50: > 5000 mg/L (Oncorhynchus mykiss)	No data available	48h EC50: > 1000 mg/L (Daphnia magna)
Petroleum distillates, hydrotreated light paraffinic	No data available	96h LC50: > 5000 mg/L (Oncorhynchus mykiss)	No data available	48h EC50: > 1000 mg/L (Daphnia magna)
Third Party Formulation (TP # 1548281)	No data available	96h LC50: = 9.22 mg/L (Oncorhynchus mykiss)	No data available	48h EC50: = 6.14 mg/L (Daphnia magna)
3rd Party %: 0.616735 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.0705 (Third Party Formulation (TP # 1521267))	No data available	96h LC50: 7.19 - 8.28 mg/L (Pimephales promelas)	No data available	48h EC50: = 6.14 mg/L (Daphnia magna)
Third Party Formulation (TP # 1548281)	No data available	96h LC50: = 3.48 mg/L (Pimephales promelas)	No data available	No data available
Third Party Formulation (TP # 1521267)	No data available	96h LC50: = 9.22 mg/L (Oncorhynchus mykiss)	No data available	48h EC50: = 6.14 mg/L (Daphnia magna)
Third Party Formulation (TP # 1548281)	72h EC50: = 11.5 mg/L (Desmodesmus subspicatus)	96h LC50: 10.0 - 33.0 mg/L (Lepomis macrochirus) 96h LC50: 27 - 29.5 mg/L (Pimephales promelas) 96h LC50: 32 - 37 mg/L (Oncorhynchus mykiss) 96h LC50: = 29.7 mg/L (Pimephales promelas) 96h LC50: > 7.5 mg/L	No data available	48h EC50: = 39 mg/L (Daphnia magna)

		(<i>Oncorhynchus mykiss</i>)		
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %: 7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))	72h EC50: = 2.6 mg/L (<i>Pseudokirchneriella subcapitata</i>)	96h LC50: 6.04 - 6.61 mg/L (<i>Pimephales promelas</i>) 96h LC50: = 2.7 mg/L (<i>Oncorhynchus mykiss</i>) 96h LC50: = 4.8 mg/L (<i>Oncorhynchus mykiss</i>) 96h LC50: = 5.1 mg/L (<i>Poecilia reticulata</i>)	EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h	48h EC50: 7.9 - 14.1 mg/L (<i>Daphnia magna</i>) 48h EC50: = 0.6 mg/L (<i>Daphnia magna</i>)
Third Party Formulation (TP # 1710646)	No data available	96h LC50: 13.1 - 16.5 mg/L (<i>Lepomis macrochirus</i>) 96h LC50: 13.5 - 17.3 mg/L (<i>Oncorhynchus mykiss</i>) 96h LC50: 2.661 - 4.093 mg/L (<i>Oncorhynchus mykiss</i>) 96h LC50: 23.53 - 29.97 mg/L (<i>Pimephales promelas</i>) 96h LC50: 30.26 - 40.75 mg/L (<i>Poecilia reticulata</i>) 96h LC50: 7.711 - 9.591 mg/L (<i>Lepomis macrochirus</i>) 96h LC50: = 13.4 mg/L (<i>Pimephales promelas</i>) 96h LC50: = 19 mg/L (<i>Lepomis macrochirus</i>) 96h LC50: = 780 mg/L (<i>Cyprinus carpio</i>) 96h LC50: > 780 mg/L (<i>Cyprinus carpio</i>)	EC50 = 0.0084 mg/L 24 h	48h LC50: = 0.6 mg/L (<i>Gammarus lacustris</i>) 48h EC50: = 3.82 mg/L (water flea)
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party %: 5e-007 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))	96h EC50: 1.7 - 7.6 mg/L (<i>Pseudokirchneriella subcapitata</i>) 72h EC50: 2.6 - 11.3 mg/L (<i>Pseudokirchneriella subcapitata</i>) 72h EC50: = 4.6 mg/L (<i>Pseudokirchneriella subcapitata</i>) 96h EC50: > 438 mg/L (<i>Pseudokirchneriella</i>)	96h LC50: 11.0 - 18.0 mg/L (<i>Oncorhynchus mykiss</i>) 96h LC50: 7.55 - 11 mg/L (<i>Pimephales promelas</i>) 96h LC50: 9.1 - 15.6 mg/L (<i>Pimephales promelas</i>) 96h LC50: = 32 mg/L (<i>Lepomis macrochirus</i>) 96h LC50: = 4.2 mg/L (<i>Oncorhynchus</i>)	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	48h EC50: 1.8 - 2.4 mg/L (<i>Daphnia magna</i>)

	subcapitata)	mykiss) 96h LC50: = 9.6 mg/L (Poecilia reticulata)		
3rd Party %: 0.002345 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.00045 (Third Party Formulation (TP # 1521267))	No data available	96h LC50: 0.91 - 2.82 mg/L (Oncorhynchus mykiss) 96h LC50: 5.74 - 6.44 mg/L (Pimephales promelas) 96h LC50: = 1.6 mg/L (Oncorhynchus mykiss) 96h LC50: = 1.99 mg/L (Pimephales promelas) 96h LC50: = 31.0265 mg/L (Lepomis macrochirus)	EC50 = 0.93 mg/L 30 min EC50 > 20 mg/L 18 h	48h EC50: 1.09 - 3.4 mg/L (Daphnia magna) 48h EC50: = 1.96 mg/L (Daphnia magna) 48h LC50: = 2.16 mg/L (Daphnia magna)
Third Party Formulation (TP # 1548281)	72h EC50: = 29 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 10.7 - 14.7 mg/L (Pimephales promelas) 96h LC50: 22330 - 41160 µg/L (Pimephales promelas) 96h LC50: 70000 - 142000 µg/L (Lepomis macrochirus) 96h LC50: = 22.49 mg/L (Lepomis macrochirus) 96h LC50: = 28.6 mg/L (Poecilia reticulata) 96h LC50: = 5.3 mg/L (Oncorhynchus mykiss)	No data available	48h EC50: 8.76 - 15.6 mg/L (Daphnia magna) 48h EC50: = 10 mg/L (Daphnia magna)
Third Party Formulation (TP # 1521267)	72h EC50: = 29 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 10.7 - 14.7 mg/L (Pimephales promelas) 96h LC50: 22330 - 41160 µg/L (Pimephales promelas) 96h LC50: 70000 - 142000 µg/L (Lepomis macrochirus) 96h LC50: = 22.49 mg/L (Lepomis macrochirus) 96h LC50: = 28.6 mg/L (Poecilia reticulata) 96h LC50: = 5.3 mg/L (Oncorhynchus mykiss)	No data available	48h EC50: 8.76 - 15.6 mg/L (Daphnia magna) 48h EC50: = 10 mg/L (Daphnia magna)
Third Party Formulation (TP #	72h EC50: = 12.5 mg/L	96h LC50: 11.0 - 15.0 mg/L (Lepomis	EC50 = 19.7 mg/L 30 min	48h EC50: 5.46 - 9.83 mg/L (Daphnia magna)

1710646)	(Pseudokirchneriella subcapitata) 96h EC50: > 433 mg/L (Pseudokirchneriella subcapitata)	macrochirus) 96h LC50: 14.1 - 17.16 mg/L (Oncorhynchus mykiss) 96h LC50: 15.22 - 19.05 mg/L (Pimephales promelas) 96h LC50: 5.89 - 7.81 mg/L (Oncorhynchus mykiss) 96h LC50: 50.87 - 70.34 mg/L (Poecilia reticulata) 96h LC50: = 12.6 mg/L (Pimephales promelas) 96h LC50: = 28.2 mg/L (Poecilia reticulata) 96h LC50: = 5.8 mg/L (Oncorhynchus mykiss) 96h LC50: = 54 mg/L (Oryzias latipes)		48h EC50: = 11.5 mg/L (Daphnia magna)
Third Party Formulation (TP # 1548281)	96h EC50: = 65 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 14.07 - 23.61 mg/L (Poecilia reticulata) 96h LC50: 18.37 - 24.21 mg/L (Lepomis macrochirus) 96h LC50: 9.72 - 15.92 mg/L (Pimephales promelas) 96h LC50: = 11.5 mg/L (Lepomis macrochirus) 96h LC50: = 24 mg/L (Brachydanio rerio) 96h LC50: = 8.4 mg/L (Oncorhynchus mykiss)	EC50 = 22.6 mg/L 5 min EC50 = 25.9 mg/L 15 min EC50 = 26.5 mg/L 30 min	48h EC50: = 15.8 mg/L (Daphnia magna) 48h EC50: = 9.5 mg/L (Daphnia magna)
3rd Party %: 1.876e-005 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	No data available	96h LC50: 57 - 66 mg/L (Pimephales promelas)	No data available	No data available
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	96h EC50: = 240 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 215 mg/L (Lepomis macrochirus)	EC50 = 3300 mg/L 160 min	48h EC50: = 350 mg/L (Daphnia magna)

Third Party Formulation (TP # 1548281)	No data available	96h LC50: 1.8 - 2.4 mg/L (Oncorhynchus mykiss) 96h LC50: 28.0 - 34.0 mg/L (Pimephales promelas) 96h LC50: 39.8 - 46.8 mg/L (Pimephales promelas) 96h LC50: = 53 mg/L (Lepomis macrochirus)	EC50 = 280.6 mg/L 15 min EC50 = 280.6 mg/L 25 min EC50 = 280.6 mg/L 5 min	48h EC50: 3.64 - 6.15 mg/L (Daphnia magna) 48h EC50: = 48.3 mg/L (Daphnia magna)
Third Party Formulation (TP # 1548281)	96h EC50: 0.0188 - 0.1044 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 187 - 279 mg/L (Desmodesmus subspicatus) 96h EC50: = 46.42 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 11.9 - 25.3 mg/L (Lepomis macrochirus) 96h LC50: 11.9 - 50.5 mg/L (Pimephales promelas) 96h LC50: 20.5 - 25.6 mg/L (Pimephales promelas) 96h LC50: 23.4 - 36.6 mg/L (Oryzias latipes) 96h LC50: 33.9 - 43.3 mg/L (Oryzias latipes) 96h LC50: 34.09 - 47.64 mg/L (Poecilia reticulata) 96h LC50: 4.23 - 7.49 mg/L (Oncorhynchus mykiss) 96h LC50: 5.0 - 12.0 mg/L (Oncorhynchus mykiss) 96h LC50: 5.449 - 6.789 mg/L (Oncorhynchus mykiss) 96h LC50: 7.5 - 14 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.00175 mg/L (Cyprinus carpio) 96h LC50: = 11.5 mg/L (Lepomis macrochirus) 96h LC50: = 13.5 mg/L (Lepomis macrochirus) 96h LC50: = 27.8 mg/L (Brachydanio rerio) 96h LC50: = 31 mg/L (Poecilia reticulata) 96h LC50: = 32 mg/L (Pimephales promelas)	EC50 21 - 36 mg/L 30 min EC50 = 23.28 mg/L 5 min EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min	48h EC50: 10.2 - 15.5 mg/L (Daphnia magna) 48h EC50: 4.24 - 10.7 mg/L (Daphnia magna)

12.2. Persistence and degradability

Persistence and Degradability No information available.

Component Information			
Third Party Formulation (TP # 1710646)			
Method	Value	Exposure time	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)			

12.3. Bioaccumulative potential

Bioaccumulation

Chemical name	Partition coefficient
3rd Party %: 0.616735 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.0705 (Third Party Formulation (TP # 1521267))	3.63
Third Party Formulation (TP # 1548281)	2.9
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %: 7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))	3.55
Third Party Formulation (TP # 1710646)	3.15
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party %: 5e-007 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))	3.6
3rd Party %: 0.002345 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.00045 (Third Party Formulation (TP # 1521267))	3.4
Third Party Formulation (TP # 1548281)	2.13
Third Party Formulation (TP # 1521267)	2.13
Third Party Formulation (TP # 1710646)	2.73
Third Party Formulation (TP # 1548281)	1.95
3rd Party %: 1.876e-005 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	1.34
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	1
Third Party Formulation (TP # 1548281)	0.63
Third Party Formulation (TP # 1548281)	1.47

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment

Petroleum distillates, hydrotreated heavy paraffinic	The substance is not PBT / vPvB
Petroleum distillates, hydrotreated light paraffinic	The substance is not PBT / vPvB
Third Party Formulation (TP # 1548281)	The substance is not PBT / vPvB
3rd Party %: 0.616735 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.0705 (Third Party Formulation (TP # 1521267))	The substance is not PBT / vPvB PBT assessment does not apply
Third Party Formulation (TP # 1548281)	The substance is not PBT / vPvB
Third Party Formulation (TP # 1521267)	The substance is not PBT / vPvB
Third Party Formulation (TP # 1548281)	The substance is not PBT / vPvB
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %: 7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))	The substance is not PBT / vPvB
Third Party Formulation (TP # 1710646)	The substance is not PBT / vPvB
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party %: 5e-007 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))	The substance is not PBT / vPvB
3rd Party %: 0.002345 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.00045 (Third Party Formulation (TP # 1521267))	The substance is not PBT / vPvB
Third Party Formulation (TP # 1548281)	The substance is not PBT / vPvB PBT assessment does not apply
Third Party Formulation (TP # 1521267)	The substance is not PBT / vPvB PBT assessment does not apply
Third Party Formulation (TP # 1710646)	The substance is not PBT / vPvB PBT assessment does not apply
Third Party Formulation (TP # 1548281)	The substance is not PBT / vPvB
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	The substance is not PBT / vPvB PBT assessment does not apply
Third Party Formulation (TP # 1548281)	The substance is not PBT / vPvB PBT assessment does not apply
Third Party Formulation (TP # 1548281)	The substance is not PBT / vPvB

12.6. Other adverse effects

Other adverse effects No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Section 14: TRANSPORT INFORMATION

IMDG/IMO Not applicable
14.1 UN-No. Not applicable
14.2 Proper Shipping Name Not applicable
14.3 Hazard Class N/A
14.4 Packing Group Not applicable
14.5 Marine Pollutant Not applicable
14.6 Special Provisions None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

RID Not applicable
14.1 UN-No. Not applicable
14.2 Proper Shipping Name Not applicable
14.3 Hazard Class Not applicable
14.4 Packing Group Not applicable
14.5 Environmental hazard Not applicable
14.6 Special Provisions None

ADR Not applicable
14.1 UN-No. Not applicable
14.2 Proper Shipping Name Not applicable
14.3 Hazard Class Not applicable
14.4 Packing Group Not applicable
14.5 Environmental hazard Not applicable
14.6 Special Provisions None

IATA Not applicable
14.1 UN-No. Not applicable
14.2 Proper Shipping Name NON REGULATED
14.3 Hazard Class N/A
14.4 Packing Group Not applicable
14.5 Environmental hazard Not applicable
14.6 Special Provisions None

Section 15: REGULATORY INFORMATION

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Third Party Formulation (TP # 1548281)	RG 84	-
3rd Party %: 0.616735 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.0705 (Third Party Formulation (TP # 1521267))	RG 84	-

Third Party Formulation (TP # 1548281)	RG 84	-
Third Party Formulation (TP # 1521267)	RG 84	-
Third Party Formulation (TP # 1548281)	RG 84	-
3rd Party %: 0.004 (Third Party Formulation (TP # 1521267)), 3rd Party %: 7.5e-005 (Third Party Formulation (TP # 1710646)), 3rd Party %: 0.037989 (Third Party Formulation (TP # 1548281))	RG 84	-
Third Party Formulation (TP # 1710646)	RG 4bis, RG 84	-
3rd Party %: 0.0004221 (Third Party Formulation (TP # 1548281)), 3rd Party %: 5e-007 (Third Party Formulation (TP # 1521267)), 3rd Party %: 0.00625 (Third Party Formulation (TP # 1710646))	RG 84	-
3rd Party %: 0.002345 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.00045 (Third Party Formulation (TP # 1521267))	RG 5, RG 14, RG 15, RG 15bis, RG 20bis RG 20, RG 20bis, RG 26, RG 34, RG 65	-
Third Party Formulation (TP # 1548281)	RG 4, RG 4bis, RG 84	-
Third Party Formulation (TP # 1521267)	RG 4, RG 4bis, RG 84	-
Third Party Formulation (TP # 1710646)	RG 4bis, RG 84	-
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267))	RG 5, RG 14, RG 15, RG 15bis, RG 20bis RG 84	-
Third Party Formulation (TP # 1548281)	RG 84	-
Third Party Formulation (TP # 1548281)	RG 14	-

Germany**Water hazard class (WGK)** Highly hazardous to water (WGK 3)**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Petroleum distillates, hydrotreated heavy paraffinic - 64742-54-7	Use restricted. See item 28. Use restricted. See item 75.	
Petroleum distillates, hydrotreated light paraffinic - 64742-55-8	Use restricted. See item 28. Use restricted. See item 75.	
Third Party Formulation (TP # 1548281) -	Use restricted. See item 28. Use restricted. See item 29. Use restricted. See item 75.	
3rd Party %: 0.616735 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.0705 (Third Party Formulation (TP # 1521267)) -	Use restricted. See item 75.	
Third Party Formulation (TP # 1521267) -	Use restricted. See item 28. Use restricted. See item 29. Use restricted. See item 75.	
Third Party Formulation (TP # 1710646) -	Use restricted. See item 75.	
3rd Party %: 0.002345 (Third Party Formulation (TP # 1548281)), 3rd Party %: 0.00045 (Third Party Formulation (TP # 1521267)) -	Use restricted. See item 75.	
Third Party Formulation (TP # 1548281) -	Use restricted. See item 72. Use restricted. See item 5. Use restricted. See item 28. Use restricted. See item 29. Use restricted. See item 75.	
Third Party Formulation (TP # 1521267) -	Use restricted. See item 72. Use restricted. See item 5. Use restricted. See item 28. Use restricted. See item 29. Use restricted. See item 75.	
Third Party Formulation (TP # 1710646) -	Use restricted. See item 48. Use restricted. See item 75.	
Third Party Formulation (TP # 1548281) -	Use restricted. See item 75.	
3rd Party %: 1.876e-005 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267)) -	Use restricted. See item 28. Use restricted. See item 75.	
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party	Use restricted. See item 28. Use restricted. See item 29.	

%: 4.5e-006 (Third Party Formulation (TP # 1521267)) -	Use restricted. See item 75.	
Third Party Formulation (TP # 1548281) -	Use restricted. See item 28. Use restricted. See item 75.	
Third Party Formulation (TP # 1548281) -	Use restricted. See item 75.	

Persistent Organic Pollutants

Not applicable.

Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 689/2008 of the European parliament and of the council concerning the export and import of dangerous chemicals.

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex Number
Third Party Formulation (TP # 1548281) -	I.1
Third Party Formulation (TP # 1521267) -	I.1

Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Third Party Formulation (TP # 1548281) -	2500	25000
Third Party Formulation (TP # 1521267) -	2500	25000
3rd Party %: 4.69e-006 (Third Party Formulation (TP # 1548281)), 3rd Party %: 4.5e-006 (Third Party Formulation (TP # 1521267)) -	5	50

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

International Inventories**TSCA**

Contact supplier for inventory compliance status.

DSL/NDSL

Contact supplier for inventory compliance status.

EINECS/ELINCS

Contact supplier for inventory compliance status.

ENCS

Contact supplier for inventory compliance status.

IECSC

Contact supplier for inventory compliance status.

KECL

Contact supplier for inventory compliance status.

PICCS

Contact supplier for inventory compliance status.

AICS

Contact supplier for inventory compliance status.

Legend**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available.

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

EUH019 - May form explosive peroxides
 H224 - Extremely flammable liquid and vapor
 H225 - Highly flammable liquid and vapor
 H226 - Flammable liquid and vapor
 H301 - Toxic if swallowed
 H302 - Harmful if swallowed
 H304 - May be fatal if swallowed and enters airways
 H311 - Toxic in contact with skin
 H312 - Harmful in contact with skin
 H314 - Causes severe skin burns and eye damage
 H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H331 - Toxic if inhaled
 H332 - Harmful if inhaled
 H335 - May cause respiratory irritation
 H336 - May cause drowsiness or dizziness
 H340 - May cause genetic defects
 H341 - Suspected of causing genetic defects
 H350 - May cause cancer
 H351 - Suspected of causing cancer
 H361d - Suspected of damaging the unborn child
 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

Legend

SVHC: Substances of Very High Concern for Authorization:

Section 8: Exposure controls and personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation

Classification procedure

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
U.S. Environmental Protection Agency High Production Volume Chemicals
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

Prepared By Product Stewardship
23 British American Blvd.
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1-800-572-6501

Issuing Date 31-Aug-2023

Revision Date 27-Feb-2024

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.

Disclaimer

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End of Safety Data Sheet
