SAFETY DATA SHEET
STP® Ultra Petrol
According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name STP® Ultra Petrol

Product number 76400

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

Identified uses Fuel additive.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier
Energizer Trading Ltd
Sword House
Totteridge Road
High Wycombe
HP13 6DG
UK
Tel: +44 845 602 1995
euregulatory@energizer.com

1.4. Emergency telephone number

Emergency telephone
+44 1495 350234
Monday - Thursday: 0830 - 1700
Friday: 0830 - 1530

National emergency telephone number Product information has been submitted to the UK National Poisons Information Service (NPIS) and is accessible to medical health professionals.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 2 - H411

Human health Pneumonia may be the result if vomited material containing solvents reaches the lungs.

2.2. Label elements

Hazard pictograms

STP® Ultra Petrol

Signal word	Danger
Hazard statements	H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P102 Keep out of reach of children. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. P391 Collect spillage. P501 Dispose of contents/ container in accordance with national regulations.
Supplemental label information	EUH066 Repeated exposure may cause skin dryness or cracking.
Contains	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics, Hydrocarbons, C10, aromatics, >1% naphthalene
Supplementary precautionary statements	P273 Avoid release to the environment. P405 Store locked up.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics **50 - 100%**

CAS number: 64742-47-8 EC number: 926-141-6 REACH registration number: 01-2119456620-43-XXXX

Classification
Asp. Tox. 1 - H304

Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) **1 - <2.5%**

CAS number: 68603-38-3 EC number: 271-653-9 REACH registration number: 01-2119951823-33-XXXX

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Aquatic Chronic 2 - H411

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Hydrocarbons, C10, aromatics, >1% naphthalene **1 - <2.5%**

CAS number: — EC number: 919-284-0 REACH registration number: 01-2119463588-24-XXXX

This is a complex mixture of constituents, a UVCB substance of variable composition.To prevent over-classification the Carc. 2 – H351 has been removed from the registered classification as it is applied to the constituent chemical Naphthalene (CAS 91-20-3).

Classification
STOT SE 3 - H336
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

2-ethylhexan-1-ol **1 - <2.5%**

CAS number: 104-76-7 EC number: 203-234-3 REACH registration number: 01-2119487289-20-XXXX

Classification
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
STOT SE 3 - H335

Naphthalene **0.25 - <0.5%**

CAS number: 91-20-3 EC number: 202-049-5

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Flam. Sol. 2 - H228
Acute Tox. 4 - H302
Carc. 2 - H351
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Ferrocene **0.2 - <0.3%**

CAS number: 102-54-5 EC number: 203-039-3 REACH registration number: 01-2119978280-34-XXXX

M factor (Chronic) = 10

Classification
Flam. Sol. 1 - H228
Acute Tox. 4 - H302
Acute Tox. 4 - H332
Repr. 1B - H360FD
STOT RE 2 - H373
Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

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4.1. Description of first aid measures

General information Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Inhalation If throat irritation or coughing persists, proceed as follows. Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.

Ingestion Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms are severe or persist.

Skin contact Remove contaminated clothing and rinse skin thoroughly with water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

Eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms are severe or persist after washing.

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

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Drowsiness. Dizziness.

Ingestion May cause discomfort if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Skin contact Prolonged skin contact may cause redness and irritation.

Eye contact May cause irritation.

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

Notes for the doctor Treat symptomatically. Keep affected person under observation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Use water to keep fire exposed containers cool and disperse vapours.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Eliminate all ignition sources if safe to do so. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Eliminate all ignition sources if safe to do so. Do not touch or walk into spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Use only non-sparking tools. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections

Reference to other sections See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. Keep away from heat, sparks and open flame. Provide adequate ventilation.

Advice on general occupational hygiene Avoid contact with eyes and prolonged skin contact. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in a cool and well-ventilated place. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (CAS: 64742-47-8)

DNEL Not determined.

PNEC Not determined.

Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) (CAS: 68603-38-3)

DNEL

Workers - Inhalation; Long term systemic effects: 73.44 mg/m³
Workers - Dermal; Long term systemic effects: 4.16 mg/kg/day
Workers - Dermal; Long term local effects: 0.0936 mg/cm²
General population - Inhalation; Long term systemic effects: 21.73 mg/m³
General population - Dermal; Long term systemic effects: 2.5 mg/kg/day
General population - Dermal; Long term local effects: 0.0562 mg/cm²
General population - Oral; Long term systemic effects: 6.25 mg/kg/day

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PNEC

Fresh water; 0.007 mg/l
marine water; 0.0007 mg/l
STP; 0.83 g/l
Sediment (Freshwater); 0.21115 mg/kg
Soil; 0.09979 mg/kg

Hydrocarbons, C10, aromatics, >1% naphthalene

DNEL

Workers - Inhalation; Long term systemic effects: 151 mg/m³
Workers - Dermal; Long term systemic effects: 12.5 mg/kg/day
General population - Inhalation; Long term systemic effects: 32 mg/m³
General population - Dermal; Long term systemic effects: 7.5 mg/kg/day
General population - Oral; Long term systemic effects: 7.5 mg/kg/day

PNEC

Not determined.

2-ethylhexan-1-ol (CAS: 104-76-7)

DNEL

Workers - Inhalation; Long term systemic effects: 12.8 mg/m³
Workers - Inhalation; Long term local effects: 53.2 mg/m³
Workers - Inhalation; Short term local effects: 53.2 mg/m³
Workers - Dermal; Long term systemic effects: 23 mg/kg/day
General population - Inhalation; Long term systemic effects: 2.3 mg/m³
General population - Inhalation; Long term local effects: 26.6 mg/m³
General population - Inhalation; Short term local effects: 26.6 mg/m³
General population - Dermal; Long term systemic effects: 11.4 mg/kg/day
General population - Oral; Long term systemic effects: 1.1 mg/kg/day

PNEC

Fresh water; 0.017 mg/l
Fresh water, Intermittent release; 0.17 mg/l
marine water; 0.002 mg/l
STP; 10 mg/l
Sediment (Freshwater); 0.284 mg/kg
Sediment (Marinewater); 0.028 mg/kg
Soil; 0.047 mg/kg
Oral; 55 mg/kg

Ferrocene (CAS: 102-54-5)

DNEL

Workers - Inhalation; Long term systemic effects: 0.02 mg/m³
Workers - Inhalation; Short term systemic effects: 0.04 mg/m³
Workers - Dermal; Long term systemic effects: 0.025 mg/kg/day
General population - Inhalation; Long term systemic effects: 0.005 mg/m³
General population - Dermal; Long term systemic effects: 0.013 mg/kg/day
General population - Oral; Long term systemic effects: 0.013 mg/kg/day

PNEC

Fresh water; 0 mg/l
marine water; 0 mg/l
STP; 0.876 mg/l

8.2. Exposure controls

Protective equipment

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Appropriate engineering controls	Provide adequate ventilation. All handling should only take place in well-ventilated areas. Avoid inhalation of vapours and spray/mists. Use explosion-proof electrical, ventilating and lighting equipment.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Do not smoke in work area. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.
Environmental exposure controls	Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Coloured liquid.
Colour	Light (or pale). Gold. Orange.
Odour	Characteristic.
Odour threshold	Not determined.
pH	Not determined.
Melting point	Not relevant.
Initial boiling point and range	Not determined.
Flash point	73°C
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not relevant.
Upper/lower flammability or explosive limits	Not relevant.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	0.8111
Bulk density	812.6 kg/m³
Partition coefficient	Not determined.

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Auto-ignition temperature	Not relevant.
Decomposition Temperature	Not relevant.
Viscosity	2.154 cSt @ 40°C
Explosive properties	Not considered to be explosive.
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

9.2. Other information

Other information	No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The following materials may react with the product: Acids. Oxidising materials.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid	Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.
ATE inhalation (vapours mg/l)	1,086.63

Skin corrosion/irritation

Skin corrosion/irritation	Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation	Based on available data the classification criteria are not met.

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Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Kinematic viscosity ≤ 20.5 mm²/s. May be fatal if swallowed and enters airways.

Toxicological information on ingredients.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	15,000.0
Species	Rat
Notes (oral LD_{50})	REACH dossier information. Read-across data.
ATE oral (mg/kg)	15,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	3,160.0
Species	Rabbit
Notes (dermal LD_{50})	REACH dossier information. Read-across data.
ATE dermal (mg/kg)	3,160.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	4,951.0
Species	Rat
Notes (inhalation LC_{50})	REACH dossier information. Read-across data.
ATE inhalation (vapours mg/l)	4,951.0

Skin corrosion/irritation

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Animal data	Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Read-across data.

Serious eye damage/irritation

Serious eye damage/irritation	Dose: 0.1 ml, 1 second, Rabbit Not irritating. REACH dossier information. Read-across data.

Skin sensitisation

Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Read-across data.

Germ cell mutagenicity

Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Read-across data.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Read-across data.

Carcinogenicity

Carcinogenicity	NOAEC 1100 mg/m³, Inhalation, Mouse REACH dossier information. Read-across data.

Reproductive toxicity

Reproductive toxicity - fertility	Fertility, One-generation study - NOAEL 750 mg/kg/day, Oral, Rat F1 REACH dossier information. Read-across data.
Reproductive toxicity - development	Maternal toxicity: - NOAEL: >= 5220 mg/m³, Inhalation, Rat REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEC > 10400 mg/m³, Inhalation, Rat REACH dossier information. Read-across data.

Aspiration hazard

Aspiration hazard	2.4 cSt @ 20°C Asp. Tox. 1 - H304

Hydrocarbons, C10, aromatics, >1% naphthalene

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,558.0
Species	Rat
Notes (oral LD_{50})	REACH dossier information.
ATE oral (mg/kg)	5,558.0

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rabbit

Skin corrosion/irritation

Animal data	Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: No oedema (0). REACH dossier information.

Serious eye damage/irritation

Serious eye damage/irritation	Dose: 0.1 ml, 1 second, Rabbit REACH dossier information. Not irritating.

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Skin sensitisation

Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Read-across data.

Germ cell mutagenicity

Genotoxicity - in vitro	Chromosome aberration: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.

Reproductive toxicity

Reproductive toxicity - fertility	Three-generation study - NOAEC >= 1500 ppm, Inhalation, Rat REACH dossier information. Read-across data.
Reproductive toxicity - development	Developmental toxicity: - NOAEL: > 450 mg/kg/day, Oral, Rat REACH dossier information. Read-across data.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEC > 0.38 mg/l, Inhalation, Rat REACH dossier information.

Aspiration hazard

Aspiration hazard	1.38 cSt @ 20°C/68°F REACH dossier information.

2-ethylhexan-1-ol

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	3,290.0
Species	Rat
Notes (oral LD_{50})	REACH dossier information.
ATE oral (mg/kg)	3,290.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	3,000.0
Species	Rat
Notes (dermal LD_{50})	REACH dossier information.
ATE dermal (mg/kg)	3,000.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	11.0

Skin corrosion/irritation

Animal data	Primary dermal irritation index: 6.75 Dose: 0.5 ml, 4 hours, Rabbit REACH dossier information. Highly irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Dose: 0.1 ml, 1 second, Rabbit REACH dossier information. Irritating.

Germ cell mutagenicity

Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information.

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Carcinogenicity

Carcinogenicity	NOAEL 500 mg/kg/day, Oral, Rat REACH dossier information.

Reproductive toxicity

Reproductive toxicity - development	Developmental toxicity: - NOAEL: 2520 mg/kg/day, Dermal, Rat REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEL 250 mg/kg/day, Oral, Rat REACH dossier information.

Aspiration hazard

Aspiration hazard	4.3 mPa s @ 40°C/104°F REACH dossier information.

Ferrocene

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,320.0
Species	Rat
Notes (oral LD_{50})	REACH dossier information.
ATE oral (mg/kg)	1,320.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	3,000.0
Species	Rat
Notes (dermal LD_{50})	REACH dossier information.
ATE dermal (mg/kg)	3,000.0

Acute toxicity - inhalation

Notes (inhalation LC_{50})	cATpE: Converted Acute Toxicity Point Estimate.
ATE inhalation (vapours mg/l)	11.0

Skin corrosion/irritation

Animal data	Dose: 0.5 g, 4 hours, Rabbit Primary dermal irritation index: 0.5 / 1 REACH dossier information.

Serious eye damage/irritation

Serious eye damage/irritation	Dose: 0.1 g, 72 hours, Rabbit REACH dossier information. Not irritating.

Skin sensitisation

Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.

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Reproductive toxicity

Reproductive toxicity - fertility	Screening - NOEL 5 mg/kg/day, Oral, Rat P, F1 REACH dossier information.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Acute aquatic toxicity

Acute toxicity - fish	LL_{50}, 96 hours: > 1000 mg/l, Oncorhynchus mykiss (Rainbow trout) REACH dossier information.
Acute toxicity - aquatic invertebrates	EL_{50}, 48 hours: > 1000 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EL_{50}, 72 hours: > 1000 mg/l, Pseudokirchneriella subcapitata REACH dossier information.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOELR, 28 days: 0.173 mg/l, Oncorhynchus mykiss (Rainbow trout) QSAR REACH dossier information.
Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 1.22 mg/l, Daphnia magna QSAR REACH dossier information.

Hydrocarbons, C10, aromatics, >1% naphthalene

Acute aquatic toxicity

Acute toxicity - fish	LL_{50}, 96 hours: 2 - 5 mg/l, Oncorhynchus mykiss (Rainbow trout) REACH dossier information.
Acute toxicity - aquatic invertebrates	EL_{50}, 48 hours: 10 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EL_{50}, 72 hours: 1 - 3 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
Acute toxicity - microorganisms	NOELR, 48 hours: 1.892 mg/l, Tetrahymena pyriformis REACH dossier information. QSAR

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOELR, 28 days: 0.487 mg/l, Oncorhynchus mykiss (Rainbow trout) REACH dossier information. QSAR
Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 0.851 mg/l, Daphnia magna REACH dossier information. QSAR

2-ethylhexan-1-ol

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Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 17.1 mg/l, Leuciscus idus (Golden orfe) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 39 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 11.5 mg/l, Scenedesmus subspicatus REACH dossier information.

Ferrocene

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 48 hours: 24.5 mg/l, Leuciscus idus (Golden orfe) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC_{50}, 24 hours: 2.5 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 1.03 mg/l, Desmodesmus subspicatus REACH dossier information.
Acute toxicity - microorganisms	NOEC, 6 hours: > 87.6 mg/kg, Pseudomonas putida REACH dossier information.

Chronic aquatic toxicity

NOEC	0.01 < NOEC ≤ 0.1
M factor (Chronic)	10
Chronic toxicity - fish early life stage	NOEC, 14 days: 1.5 mg/l, Leuciscus idus (Golden orfe) REACH dossier information.
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: ~ 0.0015 mg/l, Daphnia magna REACH dossier information.

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Biodegradation	Water - Degradation ~ 5%: 3 days Water - Degradation 69: 28 days REACH dossier information. Readily biodegradable but failing the 10-day window.

Hydrocarbons, C10, aromatics, >1% naphthalene

Biodegradation	Water - Degradation 57.95 %: 28 days REACH dossier information. Inherently biodegradable.

2-ethylhexan-1-ol

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Biodegradation Water - Degradation 79 - 99.9%: 2 weeks
REACH dossier information.
The substance is readily biodegradable.

Ferrocene

Biodegradation Water - Degradation (56%): 28 days
REACH dossier information.
Inherently biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Partition coefficient Scientifically unjustified. REACH dossier information.

Hydrocarbons, C10, aromatics, >1% naphthalene

Bioaccumulative potential No data available on bioaccumulation.

2-ethylhexan-1-ol

Bioaccumulative potential BCF: 25.33, REACH dossier information.

Partition coefficient log Pow: 2.9 REACH dossier information.

Ferrocene

Partition coefficient log Pow: 3.711 REACH dossier information.

12.4. Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Mobility The product has poor water-solubility.

Surface tension 26.4 mN/m @ 25°C

Hydrocarbons, C10, aromatics, >1% naphthalene

Surface tension 30.4 mN/m @ 25°C/77°F REACH dossier information.

2-ethylhexan-1-ol

Surface tension 47 mN/m @ 20°C/68°F REACH dossier information.

Ferrocene

Adsorption/desorption coefficient - log Koc: ~ 3 @ 25°C/77°F REACH dossier information.

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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste product or used containers in accordance with local regulations

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Ferrocene, Hydrocarbons, C10, aromatics, >1% naphthalene)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Ferrocene, Hydrocarbons, C10, aromatics, >1% naphthalene)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Ferrocene, Hydrocarbons, C10, aromatics, >1% naphthalene)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Ferrocene, Hydrocarbons, C10, aromatics, >1% naphthalene)

14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6

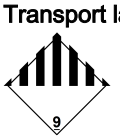
ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

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ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (-)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations EH40/2005 Workplace exposure limits.

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. ATE: Acute Toxicity Estimate. DNEL: Derived No Effect Level. LC_{50}: Lethal Concentration to 50 % of a test population. LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. BCF: Bioconcentration Factor.
Classification procedures according to Regulation (EC) 1272/2008	Asp. Tox. 1 - H304, Aquatic Chronic 2 - H411: Calculation method. EUH066: Expert judgement.
Revision comments	Revised classification. Section 1: Identification of the substance/mixture and of the company/undertaking // 1.3. Details of the supplier of the safety data sheet.
Revision date	19/03/2020
Revision	6
Supersedes date	26/11/2018
SDS number	170
Hazard statements in full	H228 Flammable solid. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H360FD May damage fertility. May damage the unborn child. 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. H373 May cause damage to organs (Liver) through prolonged or repeated exposure if swallowed or if inhaled.