

# 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 o	f 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	ne safety data sheet	
Supplier		
	Armored Auto UK Ltd	
	Unit 16	
	Rassau Industrial Estate	
	Ebbw Vale	
	Gwent	
	NP23 5SD	
	Tel: +44 1495 350234	
	Fax: +44 1495 350431	
	eulegulatory@eu.spectrumbrands.com	
1.4. Emergency telephone nur	nber	
Emergency telephone	+44 1495 350234	
	Monday - Thursday: 0830 - 1700	
	Friday: 0830 - 1530	
SECTION 2: Hazards identifica	ation	
2.1 Classification of the subst	ance or mixture	
Classification (EC 1272/2008)		
Physical hazards	Not Classified	
Health hazards	Eye Irrit. 2 - H319 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		
Pictogram		

Signal word	Danger
Hazard statements	H304 May be fatal if swallowed and enters airways. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	<ul> <li>P102 Keep out of reach of children.</li> <li>P280 Wear eye and face protection.</li> <li>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</li> <li>P331 Do NOT induce vomiting.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
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	<ul> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P273 Avoid release to the environment.</li> <li>P337+P313 If eye irritation persists: Get medical advice/ attention.</li> <li>P391 Collect spillage.</li> <li>P405 Store locked up.</li> </ul>

#### 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-alka aromatics	anes, isoalkanes, cyclics, <2%	50 - 100%
CAS number: —	EC number: 926-141-6	REACH registration number: 01- 2119456620-43-XXXX
<b>Classification</b> Asp. Tox. 1 - H304		
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 co	nstituents, a UVCB substance of variable co	omposition.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		

Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl)		1 - <2.5%
CAS number: 68603-38-3	EC number: 271-653-9	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318		
<b>Ferrocene</b> CAS number: 102-54-5	EC number: 203-039-3	0.25 - <0.5% 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		
Naphthalene		0.25 - <0.5%
CAS number: 91-20-3	EC number: 202-049-5	
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b> Acute Tox. 4 - H302 Carc. 2 - H351 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
1,2,4-Trimethylbenzene	F0 1 000 100 0	0.025 - <0.25%
CAS number: 95-63-6	EC number: 202-436-9	
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Chronic 2 - H411		
Mesitylene CAS number: 108-67-8	EC number: 203-604-4	0.025 - <0.25%
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H335 Aquatic Chronic 2 - H411		

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formaldehyde	<0.025	%
CAS number: 50-00-0	EC number: 200-001-8	
Classification		
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
Skin Corr. 1B - H314		
Skin Sens. 1 - H317		
Muta. 2 - H341		
Carc. 1B - H350		
STOT SE 3 - H335		
The Full Text for all R-Phrase	es and Hazard Statements are Displayed in Section 16.	
SECTION 4: First aid measu	es	
4.1. Description of first aid m	easures	
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for	

	Pain or irritation. Profuse watering of the eyes. Redness.
Skin contact Eye contact	Prolonged skin contact may cause redness and irritation. This product is strongly irritating. A single exposure may cause the following adverse effects:
Ingestion	May cause discomfort if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Inhalation	Vapours may cause drowsiness and dizziness.
4.2. Most important symp	toms and effects, both acute and delayed
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if symptoms are severe or persist after washing.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.
	breathing.

#### 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 fro	om the substance or mixture

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

#### 5.3. Advice for firefighters

**Special protective equipment** Use protective equipment appropriate for surrounding materials. **for firefighters** 

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.	
6.2. Environmental precautions		
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.	
6.3. Methods and material for c	containment and cleaning up	
Methods for cleaning up	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.	
6.4. Reference to other section	<u>S</u>	
Reference to other sections	See Section 11 for additional information on health hazards. For waste disposal, see Section 13.	
SECTION 7: Handling and stor	age	
7.1. Precautions for safe handle	ing	
Usage precautions	Read and follow manufacturer's recommendations.	
Advice on general occupational hygiene	Avoid contact with eyes and prolonged skin contact. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.	
7.2. Conditions for safe storage	e, including any incompatibilities	
Storage precautions	Store in a cool and well-ventilated place. Keep away from heat, sparks and open flame. Store locked up.	
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	s/personal protection	
<ul> <li>8.1. Control parameters</li> <li>Occupational exposure limits</li> <li>Naphthalene</li> <li>Short-term exposure limit (15-minute): WEL 15 ppm 80 mg/m<sup>3</sup></li> <li>Long-term exposure limit (8-hour TWA): WEL 10 ppm 53 mg/m<sup>3</sup></li> <li>1,2,4-Trimethylbenzene</li> <li>Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m<sup>3</sup></li> <li>Mesitylene</li> <li>Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m<sup>3</sup></li> </ul>		
formaldehyde		

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m<sup>3</sup> WEL = Workplace Exposure Limit

#### 8.2. Exposure controls

#### Protective equipment



Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	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.
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.

#### **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.
рН	Not determined.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	73°C
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	0.8111
Bulk density	812.6 kg/m³
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
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 rea	ctivity
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 r	eactions
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	n products
Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO). Toxic gases or vapours.
SECTION 11: Toxicological info	ormation
11.1. Information on toxicologic	cal effects
Acute toxicity - oral	
Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - dermal Notes (dermal LD <sub>50</sub> )	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC <sub>50</sub> )	Based on available data the classification criteria are not met.
Skin corrosion/irritation Animal data	Based on available data the classification criteria are not met.
Serious eye damage/irritation Serious eye damage/irritation	Eye Irrit. 2 - H319 Causes serious eye irritation.
Respiratory sensitisation Respiratory sensitisation	Based on available data the classification criteria are not met.
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	e toxicity - fertility Ba	ased on	available data the classification criteria are not met.
Specific targe	et organ toxicity - sing	gle expo	osure
STOT - singl	e exposure Ba	ased on	available data the classification criteria are not met.
Specific targe	et organ toxicity - rep	eated e	xposure
STOT - repe	ated exposure Ba	ased on	available data the classification criteria are not met.
Aspiration ha	azard		
Aspiration ha	azard Ki	inematio	c viscosity ≤ 20.5 mm²/s. Asp. Tox. 1 - H304 Aspiration hazard if swallowed.
Skin contact	R	epeatec	exposure may cause skin dryness or cracking.
		Hydroca	arbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
	Acute toxicity - oral		
	Acute toxicity oral (L mg/kg)	.D50	15,000.0
	Species		Rat
	Notes (oral LD₅₀)		REACH dossier information. Read-across data.
	ATE oral (mg/kg)		15,000.0
	Acute toxicity - dermal		
	Acute toxicity derma mg/kg)	I (LD₅o	3,160.0
Sp	Species		Rabbit
	Notes (dermal LD <sub>50</sub> )		REACH dossier information. Read-across data.
	ATE dermal (mg/kg)		3,160.0
	Acute toxicity - inhal	ation	
	Acute toxicity inhalat (LC₅₀ vapours mg/l)	tion	4,951.0
	Species		Rat
	Notes (inhalation LC	50)	REACH dossier information. Read-across data.
	ATE inhalation (vapo mg/l)	ours	4,951.0
	Skin corrosion/irritati	ion	
	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	/irritatio	<u>n</u>
	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/m <sup>3</sup> , 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/m <sup>3</sup> , Inhalation, Rat REACH dossier information.
Specific target organ toxicit	y - repeated exposure
STOT - repeated exposure	NOAEC > 10400 mg/m <sup>3</sup> , 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 (LD₅₀ mɑ/kɑ)	5,558.0
Species	Rat
Species Notes (oral LD <sub>50</sub> )	Rat REACH dossier information.
Species Notes (oral LD₅o) ATE oral (mg/kg)	Rat REACH dossier information. 5,558.0
Species Notes (oral LD∞) ATE oral (mg/kg) Acute toxicity - dermal	Rat REACH dossier information. 5,558.0
Species Notes (oral LD <sub>50</sub> ) ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD <sub>50</sub> mg/kg)	Rat REACH dossier information. 5,558.0 2,001.0
Species Notes (oral LD <sub>50</sub> ) ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD <sub>50</sub> mg/kg) Species	Rat REACH dossier information. 5,558.0 2,001.0 Rabbit
Species Notes (oral LD <sub>50</sub> ) ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD <sub>50</sub> mg/kg) Species Notes (dermal LD <sub>50</sub> )	Rat REACH dossier information. 5,558.0 2,001.0 Rabbit REACH dossier information.
Species Notes (oral LD <sub>50</sub> ) ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD <sub>50</sub> mg/kg) Species Notes (dermal LD <sub>50</sub> ) ATE dermal (mg/kg)	Rat REACH dossier information. 5,558.0 2,001.0 Rabbit REACH dossier information. 2,001.0
Species Notes (oral LD <sub>50</sub> ) ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD <sub>50</sub> mg/kg) Species Notes (dermal LD <sub>50</sub> ) ATE dermal (mg/kg) <u>Skin corrosion/irritation</u>	Rat REACH dossier information. 5,558.0 2,001.0 Rabbit REACH dossier information. 2,001.0
Species Notes (oral LD <sub>50</sub> ) ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD <sub>50</sub> mg/kg) Species Notes (dermal LD <sub>50</sub> ) ATE dermal (mg/kg) <u>Skin corrosion/irritation</u> Animal data	Rat REACH dossier information. 5,558.0 2,001.0 Rabbit REACH dossier information. 2,001.0
Species Notes (oral LD <sub>50</sub> ) ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD <sub>50</sub> mg/kg) Species Notes (dermal LD <sub>50</sub> ) ATE dermal (mg/kg) <u>Skin corrosion/irritation</u> Animal data <u>Serious eye damage/irritation</u>	Rat REACH dossier information. 5,558.0 2,001.0 Rabbit REACH dossier information. 2,001.0 Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: No oedema (0). REACH dossier information.
Species Notes (oral LD <sub>50</sub> ) ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD <sub>50</sub> mg/kg) Species Notes (dermal LD <sub>50</sub> ) ATE dermal (mg/kg) <u>Skin corrosion/irritation</u> Animal data <u>Serious eye damage/irritation</u> Serious eye damage/irritation	Rat REACH dossier information. 5,558.0 2,001.0 Rabbit REACH dossier information. 2,001.0 Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: No oedema (0). REACH dossier information. <b>m</b> Dose: 0.1 ml, 1 second, Rabbit REACH dossier information. Not irritating.
Species Notes (oral LD <sub>50</sub> ) ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD <sub>50</sub> mg/kg) Species Notes (dermal LD <sub>50</sub> ) ATE dermal (mg/kg) <u>Skin corrosion/irritation</u> Animal data <u>Serious eye damage/irritation</u> Serious eye damage/irritation <u>Skin sensitisation</u>	Rat REACH dossier information. 5,558.0 2,001.0 Rabbit REACH dossier information. 2,001.0 Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: No oedema (0). REACH dossier information.
Species Notes (oral LD <sub>50</sub> ) ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD <sub>50</sub> mg/kg) Species Notes (dermal LD <sub>50</sub> ) ATE dermal (mg/kg) <u>Skin corrosion/irritation</u> Animal data <u>Serious eye damage/irritation</u> Serious eye damage/irritation <u>Skin sensitisation</u> Skin sensitisation	Rat REACH dossier information. 5,558.0 2,001.0 Rabbit REACH dossier information. 2,001.0 Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: No oedema (0). REACH dossier information. <b>D</b> ose: 0.1 ml, 1 second, Rabbit REACH dossier information. Not irritating.

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	y - 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.
	Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl)
Acute toxicity - oral	
Notes (oral LD₅₀)	$LD_{50}$ : > 3000 mg/kg, Rat, Based on available data the classification criteria are not met.
Acute toxicity - dermal	
Notes (dermal LD₅₀)	$LD_{\mathfrak{so}}$ : > 2000 mg/kg, Rabbit, Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Animal data	Dose: 0.5 ml, 4 hours, Rabbit Primary dermal irritation index: 7 Eye Irrit. 2 - H319 Causes serious eye irritation.
Serious eye damage/irritatio	n
Serious eye damage/irritation	Eye Dam. 1 - H318 Causes serious eye damage.
Skin sensitisation	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative.
Genotoxicity - in vivo	Chromosome aberration: Negative. Read-across data.
Carcinogenicity	
Carcinogenicity	Carcinogenicity in humans is not expected. Read-across data.
Reproductive toxicity	
Reproductive toxicity - development	Developmental toxicity: - NOAEL: > 1000 mg/kg/day, Oral, Rat Read-across data.
	2-ethylhexan-1-ol
Acute toxicity - oral	
Acute toxicity oral (LD∞ mg/kg)	3,290.0
Species	Rat

Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	3,290.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	3,000.0
Species	Rat
Notes (dermal LD₅₀)	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/irritatio	on
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.
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	y - 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 (LD₅₀ mg/kg)	1,320.0
Species	Rat
Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	1,320.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	3,000.0

Species	Rat
Notes (dermal LD₅₀)	REACH dossier information.
ATE dermal (mg/kg)	3,000.0
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	Converted acute toxicity point estimate (cATpE)
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	on
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.
Reproductive toxicity	
Reproductive toxicity - fertility	Screening - NOEL 5 mg/kg/day, Oral, Rat P, F1 REACH dossier information.
	Naphthalene
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	533.0
Species	Mouse
Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	533.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	2,500.0
Species	Rat
Notes (dermal LD <sub>50</sub> )	REACH dossier information.
ATE dermal (mg/kg)	2,500.0
Acute toxicity - inhalation	
Notes (inhalation $LC_{50}$ )	REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation	
Animal data	Dose: 0.5 g, 24 hours, Rabbit Primary dermal irritation index: 1.75 / 8 REACH dossier information. Not irritating.
Serious eye damage/irritation	on
Serious eye damage/irritation	Dose: 0.1 g, 24 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.
Carcinogenicity	
IARC carcinogenicity	IARC Group 2B Possibly carcinogenic to humans.
NTP carcinogenicity	Reasonably anticipated to be a human carcinogen.
Reproductive toxicity	
Reproductive toxicity - development	Developmental toxicity: - NOEL: 400 mg/kg/day, Oral, Rabbit REACH dossier information.
	1,2,4-Trimethylbenzene
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	6,000.0
Species	Rat
Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	6,000.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	3,440.0
Species	Rat
Notes (dermal LD∞)	REACH dossier information. Read-across data.
ATE dermal (mg/kg)	3,440.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC₅₀ vapours mg/l)	10.2
Species	Rat
Notes (inhalation LC₅₀)	REACH dossier information. Read-across data.
ATE inhalation (vapours mg/l)	10.2

Skin corrosion/irritation	
Animal data	Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). REACH dossier information. Read-across data. Irritating.
Serious eye damage/irritati	on
Serious eye damage/irritation	Dose: 0.2 ml, 1 second, Rabbit REACH dossier information. Read-across data. Slightly irritating.
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.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
Specific target organ toxicit	y - repeated exposure
STOT - repeated exposure	NOAEL 600 mg/kg, Oral, Rat REACH dossier information. Read-across data.
Aspiration hazard	
Aspiration hazard	0.63 cSt @ 50°C/122°F REACH dossier information. Not anticipated to present an aspiration hazard, based on chemical structure.
	Mesitylene
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	6,000.0
Species	Rat
Notes (oral LD₅₀)	REACH dossier information. Read-across data.
ATE oral (mg/kg)	6,000.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	2,001.0
Species	Rat
Notes (dermal LD₅₀)	REACH dossier information. Read-across data.
ATE dermal (mg/kg)	2,001.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC₅₀ dust/mist mg/l)	10.2
Species	Rat
Notes (inhalation LC₅₀)	REACH dossier information. Read-across data.
ATE inhalation (dusts/mists mg/l)	10.2
Skin corrosion/irritation	

Animal data	Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). REACH dossier information.
Serious eye damage/irritatio	<u>on</u>
Serious eye damage/irritation	Dose: 0.2 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.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
Reproductive toxicity	
Reproductive toxicity - fertility	Multi-generation study - NOAEC 500 ppm, Inhalation, Rat REACH dossier information. Read-across data.
Reproductive toxicity - development	Maternal toxicity: - NOAEC: 492 mg/m³, Inhalation, Rat REACH dossier information.
Specific target organ toxicity	y - single exposure
STOT - single exposure	STOT SE 3 - H335 May cause respiratory irritation.
Specific target organ toxicity	y - repeated exposure
STOT - repeated exposure	NOAEL 600 mg/kg/day, Oral, Rat REACH dossier information.
Aspiration hazard	
Aspiration hazard	0.63 cSt @ 50°C/122°F REACH dossier information. Not anticipated to present an aspiration hazard, based on chemical structure.
	ethylenediamine
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	866.0
Species	Rat
Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	866.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	560.0
Species	Rabbit
Notes (dermal LD₅₀)	REACH dossier information.
ATE dermal (mg/kg)	560.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC₅∞ vapours mg/l)	14.7

Species	Rat
Notes (inhalation LC₅₀)	REACH dossier information.
ATE inhalation (vapours mg/l)	14.7
Skin corrosion/irritation	
Animal data	Dose: 2.5 x 2.5 cm, 1 minute, Rabbit Erythema/eschar score: Moderate to severe erythema (3). REACH dossier information. Skin Corr. 1B - H314
Serious eye damage/irritatio	on
Serious eye damage/irritation	Dose: 50 µl, 24 hours, REACH dossier information. Eye Dam. 1 - H318
Skin sensitisation	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Sensitising. REACH dossier information.
Germ cell mutagenicity	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
Carcinogenicity	
Carcinogenicity	NOAEL 20 mg/kg/day, Oral, Rat REACH dossier information.
Reproductive toxicity	
Reproductive toxicity - fertility	Two-generation study - NOAEL 23 mg/kg/day, Oral, Rat P REACH dossier information.
Reproductive toxicity - development	Maternal toxicity: - LOAEL: 454 mg/kg/day, Oral, Rat REACH dossier information.
	formaldehyde
Acute toxicity - oral	
Notes (oral LD₅₀)	Converted acute toxicity point estimate (cATpE)
ATE oral (mg/kg)	100.0
Acute toxicity - dermal	
Notes (dermal LD₅₀)	Converted acute toxicity point estimate (cATpE)
ATE dermal (mg/kg)	300.0
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	Converted acute toxicity point estimate (cATpE)
ATE inhalation (gases ppm)	700.0
Skin corrosion/irritation	
Skin corrosion/irritation	Skin Corr. 1B - H314
Animal data	Dose: 1 ml, 20 hour, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Moderate oedema - raised approximately 1 mm (3). REACH dossier information. Corrosive.

Serious eye damage/irritation		
Serious eye damage/irritation	Corrosive to skin. Corrosivity to eyes is assumed. Eye Dam. 1 - H318	
Skin sensitisation		
Skin sensitisation	Skin Sens. 1 - H317	
Germ cell mutagenicity		
Genotoxicity - in vitro	Muta. 2 - H341 Suspected of causing genetic defects.	
Carcinogenicity		
Carcinogenicity	Carc. 1B - H350 May cause cancer.	
IARC carcinogenicity	IARC Group 1 Carcinogenic to humans.	
Specific target organ toxicity - single exposure		
STOT - single exposure	STOT SE 3 - H335	

SECTION 12: Ecological Information

#### 12.1. Toxicity

Toxicity

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

Hydroc	arbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
Acute toxicity - fish	LL₅₀, 96 hours: > 1000 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information.
Acute toxicity - aquatic invertebrates	EL₅₀, 48 hours: > 1000 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EL₅₀, 72 hours: > 1000 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
Chronic toxicity - fish early life stage	NOELR, 28 days: 0.173 mg/l, Onchorhynchus 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 toxicity - fish	LL₅₀, 96 hours: 2 - 5 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information.
Acute toxicity - aquatic invertebrates	EL₅₀, 48 hours: 10 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EL₅₀, 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 toxicity - fish early life stage	NOELR, 28 days: 0.487 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information. QSAR
Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 0.851 mg/l, Daphnia magna REACH dossier information. QSAR
	Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl)
Acute toxicity - fish	LC₅₀, 24 hours: 2.5 mg/l, Onchorhynchus mykiss (Rainbow trout) LC₅₀, 48 hours: 1.7 mg/l, Onchorhynchus mykiss (Rainbow trout) LC₅₀, 72 hours: 1.3 mg/l, Onchorhynchus mykiss (Rainbow trout) LC₅₀, 96 hours: 1.2 mg/l, Onchorhynchus mykiss (Rainbow trout) LC₁₀₀, 96 hours: 3 mg/l, Onchorhynchus mykiss (Rainbow trout) NOEC, 96 hours: 0.3 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC₅o, 48 hours: ~ 3.2 mg/l, Daphnia magna LOEC, 48 hours: ~ 2 mg/l, Daphnia magna NOEC, 48 hours: ~ 1 mg/l, Daphnia magna Read-across data.
Acute toxicity - aquatic plants	NOEC, 72 hours: 2 mg/l, Scenedesmus subspicatus
Acute toxicity - microorganisms	EC <sub>50</sub> , 72 hours: 6000 mg/l, Pseudomonas putida EC <sub>10</sub> , 72 hours: 830 mg/l, Pseudomonas putida Read-across data.
Chronic toxicity - fish early life stage	NOEC, 28 days: 0.32 mg/l, Onchorhynchus mykiss (Rainbow trout) LOEC, 28 days: 1 mg/l, Onchorhynchus mykiss (Rainbow trout) LC <sub>100</sub> , 24 hours: 3.2 mg/l, Onchorhynchus mykiss (Rainbow trout) Read-across data.
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.07 mg/l, Daphnia magna LOEC, 21 days: 0.24 mg/l, Daphnia magna Read-across data.
	2-ethylhexan-1-ol
Acute toxicity - fish	LC₅₀, 96 hours: 17.1 mg/l, Leuciscus idus (Golden orfe) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 39 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: 11.5 mg/l, Scenedesmus subspicatus REACH dossier information.
	Ferrocene
Acute toxicity - fish	LC₅₀, 48 hours: 24.5 mg/l, Leuciscus idus (Golden orfe) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC₅o, 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.
	Naphthalene
Acute aquatic toxicity	
LE(C)50	$0.1 < L(E)C50 \le 1$
M factor (Acute)	1
Acute toxicity - fish	LC₅₀, 96 hours: 6.08 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC₅, 48 hours: 2.16 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - microorganisms	IC₅₀, 24 hours: 29 mg/l, Nitrosomonas REACH dossier information.
Chronic aquatic toxicity	
M factor (Chronic)	1
Chronic toxicity - fish early life stage	NOEC, 40 days: ~ 0.37 mg/l, Oncorhynchus kisutch (Coho salmon) REACH dossier information.
Chronic toxicity - aquatic invertebrates	NOEC, 125 days: 0.59 mg/l, Daphnia pulex REACH dossier information.
	1,2,4-Trimethylbenzene
Acute toxicity - fish	LC₅₀, 96 hours: 7.72 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 3.6 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC₅₀, 96 hours: 2.356 mg/l, Freshwater algae REACH dossier information. QSAR
	Maaitulana

#### Mesitylene

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

Acute toxicity - fish	LC₅₀, 96 hours: 12.52 mg/l, Carassius auratus (Goldfish) REACH dossier information.
Acute toxicity - aquatic invertebrates	LC₅₀, 48 hours: 6 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC₅₀, 48 hours: 25 mg/l, Desmodesmus subspicatus REACH dossier information.
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 2 mg/l, Daphnia magna REACH dossier information.
	ethylenediamine
Acute toxicity - fish	LC₅₀, 96 hours: 640 mg/l, Poecilia reticulata (Guppy) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 16.7 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC₅o, 72 hours: 71 mg/l, Selenastrum capricornutum NOEC, 72 hours: ~ 3.2 mg/l, Selenastrum capricornutum REACH dossier information.
Chronic toxicity - fish early life stage	NOEC, 28 days: > 10 mg/l, Gasterosteus aculeatus (Three-spined stickleback) REACH dossier information.
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.16 mg/l, Daphnia magna REACH dossier information.
	formaldehyde
Acute toxicity - fish	LC₅₀, 24 hours: 31.8 mg/l, Striped bass (Morone saxatilis) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC₁₀, 48 hours: 1.9 mg/l, Daphnia pulex EC₅₀, 48 hours: 5.8 mg/l, Daphnia pulex REACH dossier information.
Acute toxicity - aquatic plants	EC₅₀, 72 hours: 3.48 mg/l, Scenedesmus subspicatus REACH dossier information.
Acute toxicity - microorganisms	EC <sub>10</sub> , 120 hours: 14.7 mg/l, REACH dossier information.

#### 12.2. Persistence and degradability

Persistence and degradability No data available.

#### 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.
	Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl)
Phototransformation	Water - DT₅₀ : 0.06 days Calculation method.
Biodegradation	Water - Degradation (60%): 28 days The substance is readily biodegradable.
	2-ethylhexan-1-ol
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.
	Naphthalene
Biodegradation	- Degradation (99.9%): 15.2±8.4 days REACH dossier information. The substance is readily biodegradable.
	1,2,4-Trimethylbenzene
Phototransformation	Water - DT₅₀ : 12 hours REACH dossier information.
	Mesitylene
Biodegradation	- Degradation (50%): 4.4 days REACH dossier information. QSAR The substance is readily biodegradable.
	ethylenediamine
Biodegradation	Water - Degradation (95%): 28 days REACH dossier information. The substance is readily biodegradable.
	formaldehyde
Phototransformation	Water - DT₅₀ : 1.7 days REACH dossier information. Calculation method.

Biodegradation		Water - Degradation (99.5%): 160 days Water - Degradation (91%): 2 weeks REACH dossier information. The substance is readily biodegradable.
12.3. Bioaccumulative potentia	<u>al</u>	
Bioaccumulative potential	No data	available on bioaccumulation.
Partition coefficient	Partition coefficient Not determined.	
	Hydrod	carbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
Partition coefficie	nt	Scientifically unjustified. REACH dossier information.
		Hydrocarbons, C10, aromatics, >1% naphthalene
Bioaccumulative	potential	No data available on bioaccumulation.
		Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl)
Bioaccumulative	potential	BCF: 81, Calculation method.
Partition coefficie	nt	log Pow: 5.45 Calculation method.
		2-ethylhexan-1-ol
Bioaccumulative	potential	BCF: 25.33, REACH dossier information.
Partition coefficie	nt	log Pow: 2.9 REACH dossier information.
		Ferrocene
Partition coefficie	nt	log Pow: 3.711 REACH dossier information.
		Naphthalene
Bioaccumulative	potential	BCF: 36.5 - 168, Cyprinus carpio (Common carp) REACH dossier information.
Partition coefficie	nt	log Pow: 3.4 REACH dossier information.
		1,2,4-Trimethylbenzene
Bioaccumulative	potential	BCF: 243, Pimephales promelas (Fat-head Minnow) QSAR REACH dossier information.
Partition coefficie	nt	log Kow: 3.65 REACH dossier information.
		Mesitylene
Bioaccumulative	potential	BCF: 161, Pimephales promelas (Fat-head Minnow) REACH dossier information. QSAR
		ethylenediamine
Partition coefficie	nt	log Pow: -4.42 REACH dossier information. Calculation method.
		formaldehyde

	Partition coefficient	log Pow: 0.35 REACH dossier information.
12.4. Mobilit	y in soil	
Mobility	The product is soluble in water.	
	Hydrod	carbons, 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.
		Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl)
	Adsorption/desorption coefficient	Log Koc: 3.1 Calculation method.
	Henry's law constant	0.00000932 Pa m³/mol @ 25°C Calculation method.
	Surface tension	28.6 mN/m @ 20°C
		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.
		1,2,4-Trimethylbenzene
	Adsorption/desorption coefficient	Soil - log Koc 3.04 REACH dossier information. QSAR
		Mesitylene
	Adsorption/desorption coefficient	Water - log Koc: 2.87 REACH dossier information. QSAR
		ethylenediamine
	Adsorption/desorption coefficient	Water - log Koc: 3.68 @ 25°C REACH dossier information.
	Henry's law constant	0.6 Pa m³/mol @ 25°C REACH dossier information. Calculation method.
		formaldehyde
	Mobility	The product is water-soluble and may spread in water systems.
	Adsorption/desorption coefficient	log Koc 1.202 Calculation method. REACH dossier information.

12.5. Results of PBT and vPvB       This product does not contain any substances classified as PBT or vPvB. assessment         12.6. Other adverse effects       Not determined.         Other adverse effects       Not determined.         SECTION 13: Disposal considerations       Integration         13.1. Waste treatment methods       General information         Dispose of waste product or used containers in accordance with local regulations         SECTION 14: Transport information       Dispose of waste product or used containers in accordance with local regulations         14.1. UN number       UN No. (IMDG)       3082         UN No. (ICAO)       3082       3082         UN No. (ICAO)       3082       3082         UN No. (IADN)       3082       3082	
Results of PBT and vPvB assessment       This product does not contain any substances classified as PBT or vPvB.         12.6. Other adverse effects       Not determined.         Other adverse effects       Not determined.         SECTION 13: Disposal consistences       Image: Constant of the second of t	
12.6. 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       Dispose of waste product or used containers in accordance with local regulations         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       ENVIDENMENTALLY MAZAPPOUR SUBSTANCE LIQUID N.O.S. (CONTAINS Exceeded)	
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       Dispose of waste product or used containers in accordance with local regulations         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       ENVICIONMENTALLY LIAZAPPOULS SUBSTANCE LIQUUD NO.S. (CONTAINS Foreseen	
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	
13.1. Waste treatment methods         General information       Dispose of waste product or used containers in accordance with local regulations         SECTION 14: Transport information       Image: Contract of the second	
General information       Dispose of waste product or used containers in accordance with local regulations         SECTION 14: Transport information       Image: Contract of the second s	
SECTION 14: Transport information         14.1. UN number         UN No. (ADR/RID)       3082         UN No. (IMDG)       3082         UN No. (IMDG)       3082         UN No. (ICAO)       3082         UN No. (ICAO)       3082         14.2. UN proper shipping name       ENIVIDONIMENTALLY HAZAPDOULS SUBSTANCE HOULD NO.S. (CONTAINS Exceeded)	
14.1. UN number         UN No. (ADR/RID)       3082         UN No. (IMDG)       3082         UN No. (ICAO)       3082         UN No. (ICAO)       3082         UN No. (ADN)       3082         14.2. UN proper shipping name       ENI// PONIMENTALLY HAZAPPONES SUBSTANCE HOULD NO.S. (CONTAINS Exceeded)	
UN No. (ADR/RID)         3082           UN No. (IMDG)         3082           UN No. (ICAO)         3082           UN No. (ICAO)         3082           UN No. (ADN)         3082           14.2. UN proper shipping name         ENIVIDIONIMENTALLY HAZAPPOULS SUBSTANCE HIOLUD NO.S. (CONTAINS Excessore)	
UN No. (IMDG)       3082         UN No. (ICAO)       3082         UN No. (ADN)       3082         14.2. UN proper shipping name       ENIVIDIONIMENTALLY HAZAPPOULS SUBSTANCE HOULD NO.S. (CONTAINS Exceeded)	
UN No. (ICAO)     3082       UN No. (ADN)     3082       14.2. UN proper shipping name     ENIVIDIONIMENTALLY HAZAPPOOLS SUBSTANCE HOULD NO.S. (CONTAINS Excessore)	
UN No. (ADN) 3082           14.2. UN proper shipping name           Presses chipping name	
14.2. UN proper shipping name	
(ADR/RID) Hydrocarbons, C10, aromatics, >1% naphthalene)	3
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	

ADR/RID packing group	III
IMDG packing group	III

ADN	packing	group	

ICAO packing group

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

F-A, S-F
3
•3Z
90
(E)

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

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

#### 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

Classification procedures according to Regulation (EC) 1272/2008	Eye Irrit. 2 - H319, Asp. Tox. 1 - H304, Aquatic Chronic 2 - H411: Calculation method. EUH066: Expert judgement.
Revision comments	Section 2: Hazards identification // 2.2. Label elements Section 3: Composition/information on ingredients // 3.2 Mixtures.
Revision date	28/10/2015
Revision	4
Supersedes date	01/06/2015
SDS number	170

Hazard statements in full	H226 Flammable liquid and vapour.
	H228 Flammable solid.
	H301 Toxic if swallowed.
	H302 Harmful if swallowed.
	H304 May be fatal if swallowed and enters airways.
	H311 Toxic in contact with skin.
	H314 Causes severe skin burns and eye damage.
	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage.
	H319 Causes serious eye irritation.
	H331 Toxic if inhaled.
	H332 Harmful if inhaled.
	H335 May cause respiratory irritation.
	H336 May cause drowsiness or dizziness.
	H341 Suspected of causing genetic defects.
	H350 May cause cancer.
	H351 Suspected of causing cancer.
	H360FD May damage fertility. May damage the unborn child.
	H373 May cause damage to organs (Liver) 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.

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