SAFETY DATA SHEET: **Petrol Emission Reduction Treatment**

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

1.1. Product Identifier

Trade Name
Emissions Detox Pro

Product no.
DC122

Unique formula identifier (UFI)
SP5C-RRDP-FF0W-CJSQ

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

Relevant identified uses of the substance or mixture

Additive

Use descriptors (REACH)

Product category	Description
	Additives to petrol fuel

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

DC Lubricants Limited
7 The Old Mill, Reading Road
Pangbourne
Reading, RG8 7HY, UK
+44 118 304 8449
https://dclubricants.uk/

Contact person

Product Safety Department

E-mail

hello@dclubricants.uk

Revision

11/10/2023 SDS Version
5.0

Date of previous version

02/03/2023 (4.0)

Emergency telephone number

Contact The National Poisons Information Service (dial 999, 24 h service).
See section 4 “First aid measures”

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.
Skin Irrit. 2; H315, Causes skin irritation.
Acute Tox. 4; H332, Harmful if inhaled.
STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)

Signal word
Danger

Hazard statement(s)

May be fatal if swallowed and enters airways. (H304)

Causes skin irritation. (H315)

Harmful if inhaled. (H332)

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

Harmful to aquatic life with long lasting effects. (H412)

Precautionary statement(s)

General
Keep out of reach of children. (P102)

Prevention
Do not breathe vapour/mist. (P260)
Use only outdoors or in a well-ventilated area. (P271)

Response
IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310)

Get medical advice/attention if you feel unwell. (P314)

Storage
-

▾Disposal
Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
2-ethylhexan-1-ol
Hydrocarbons, C10, aromatics, > 1% naphthalene

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified;

Additional labelling
EUH066, Repeated exposure may cause skin dryness or cracking.

UFI: SP5C-RRDP-FF0W-CJSQ

2.3. Other hazards

Additional warnings
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable. This product is a mixture.

3.2. ▾Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Hydrocarbons, C10-C13, nalkanes, isoalkanes, cyclics, <2% aromatics	CAS No.: EC No.: 918-481-9 UK-REACH: Index No.:	80-95%	EUH066 Asp. Tox. 1, H304	
2-ethylhexan-1-ol	CAS No.: 104-76-7 EC No.: 203-234-3 UK-REACH: Index No.:	5-10%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335	[1]
Polyolefin alkyl phenol alkyl amine	CAS No.: EC No.: UK-REACH: Index No.:	1-3%	Skin Irrit. 2, H315	

Product/substance	Identifiers	% w/w	Classification	Note
Hydrocarbons, C10, aromatics, > 1% naphthalene	CAS No.: EC No.: 919-284-0 UK-REACH: Index No.:	1-3%	EUH066 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411	
Alkaryl polyether	CAS No.: EC No.: UK-REACH: Index No.:	1-3%	Aquatic Chronic 3, H412	
Tricarbonyl(methylcyclopentadienyl)manganese	CAS No.: 12108-13-3 EC No.: 235-166-5 UK-REACH: Index No.:	1-3%	Acute Tox. 3, H301 (ATE: 58.00 mg/kg) Acute Tox. 2, H310 (ATE: 196.70 mg/kg) Skin Irrit. 2, H315 Acute Tox. 1, H330 (ATE: 0.247 mg/L) STOT RE 1, H372 (Lung) (Inhalation) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified;	CAS No.: 64742-94-5 EC No.: 265-198-5 UK-REACH: Index No.: 649-424-00-3	1-3%	Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411	[19]
1,2,4-trimethylbenzene	CAS No.: 95-63-6 EC No.: 202-436-9 UK-REACH: Index No.: 601-043-00-3	1%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 2, H411	[1]
naphthalene	CAS No.: 91-20-3 EC No.: 202-049-5 UK-REACH: Index No.: 601-052-00-2	1%	Flam. Sol. 2, H228 Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
mesitylene;1,3,5-trimethylbenzene	CAS No.: 108-67-8 EC No.: 203-604-4 UK-REACH: Index No.: 601-025-00-5	<0.25%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411	[1]
propylbenzene;cumene	CAS No.: 98-82-8 EC No.: 202-704-5 UK-REACH: Index No.: 601-024-00-X	<0.05%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 Carc. 2, H351 Aquatic Chronic 2, H411	[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.
[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

SECTION 4: First aid measures

4.1. Description of first aid measures

General Information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation
Upon breathing difficulties or irritation of the respiratory tract: Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

Skin contact
Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

▾Eye contact
If in eyes: Flush eyes with water or saline water (20-30 ˚C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

Ingestion
IF SWALLOWED: Immediately call a POISON CENTER/doctor.
Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

Burns
Not applicable.

4.2. Most important symptoms and effects, both acute and delayed
Headache, Methaemoglobinaemia (naphthalene)
This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.

4.3. Indication of any immediate medical attention and special treatment needed
IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics
Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2 Special hazards arising from the substance or mixture
Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Carbon oxides (CO / CO2)

5.3 Advice for firefighters
Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapours from spilled material.
Contaminated areas may be slippery.

6.2 Environmental precautions
Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3 Methods and material for containment and cleaning up
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4 Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 “Exposure controls/personal protection” for protective measures.

SECTION 7: Handling and storage

7.1 ▾ Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.
Avoid direct contact with the product.
Avoid contact during pregnancy and while nursing.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 “Exposure controls/personal protection” for information on personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Keep only in original packaging.

Storage temperature

Dry, cool and well ventilated
Store out of direct sunlight.

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3 Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 ▾ Control parameters

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Long term exposure limit (8 hours) (ppm): 184
Long term exposure limit (8 hours) (mg/m³): 1200

2-ethylhexan-1-ol
Long term exposure limit (8 hours) (ppm): 1
Long term exposure limit (8 hours) (mg/m³): 5.4

Tricarbonyl(methylcyclopentadienyl)manganese
Long term exposure limit (8 hours) (mg/m³): 0.2 (inhalable fraction as Mn) / 0.05 (respirable fraction as Mn)

propylbenzene;cumene
Long term exposure limit (8 hours) (ppm): 25
Long term exposure limit (8 hours) (mg/m³): 125
Short term exposure limit (15 minutes) (ppm): 50
Short term exposure limit (15 minutes) (mg/m³): 250
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

▾ DNEL

1,2,4-trimethylbenzene

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	9512 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	16171 mg/kg bw/day
Long term – Local effects - General population	Inhalation	29.4 mg/m³
Long term – Local effects - Workers	Inhalation	100 mg/m³

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Inhalation	29.4 mg/m³
Long term – Systemic effects - Workers	Inhalation	100 mg/m³
Short term – Local effects - General population	Inhalation	29.4 mg/m³
Short term – Local effects - Workers	Inhalation	100 mg/m³
Short term – Systemic effects - General population	Inhalation	29.4 mg/m³
Short term – Systemic effects - Workers	Inhalation	100 mg/m³
Long term – Systemic effects - General population	Oral	15 mg/kg bw/day

2-ethylhexan-1-ol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	11.4 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	23 mg/kg bw/day
Long term – Local effects - General population	Inhalation	26.6 mg/m³
Long term – Local effects - Workers	Inhalation	53.2 mg/m³
Long term – Systemic effects - General population	Inhalation	2.3 mg/m³
Long term – Systemic effects - Workers	Inhalation	12.8 mg/m³
Short term – Local effects - General population	Inhalation	26.6 mg/m³
Short term – Local effects - Workers	Inhalation	53.2 mg/m³
Long term – Systemic effects - General population	Oral	1.1 mg/kg bw/day

mesitylene;1,3,5-trimethylbenzene

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	9512 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	16171 mg/kg bw/day
Long term – Local effects - General population	Inhalation	29.4 mg/m³
Long term – Local effects - Workers	Inhalation	100 mg/m³
Long term – Systemic effects - General population	Inhalation	29.4 mg/m³
Long term – Systemic effects - Workers	Inhalation	100 mg/m³
Short term – Local effects - General population	Inhalation	29.4 mg/m³
Short term – Local effects - Workers	Inhalation	100 mg/m³
Short term – Systemic effects - General population	Inhalation	29.4 mg/m³
Short term – Systemic effects - Workers	Inhalation	100 mg/m³
Long term – Systemic effects - General population	Oral	15 mg/kg bw/day

naphthalene

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	3.57 mg/kgbw/day
Long term – Local effects - Workers	Inhalation	25 mg/m³
Long term – Systemic effects - Workers	Inhalation	25 mg/m³

propylbenzene;cumene

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	1.2 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	15.4 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	16.6 mg/m³
Long term – Systemic effects - Workers	Inhalation	100 mg/m³
Short term – Local effects - Workers	Inhalation	250 mg/m³
Long term – Systemic effects - General population	Oral	5 mg/kg bw/day

Tricarbonyl(methylcyclopentadienyl)manganese

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	62 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	110 µg/kgbw/day
Long term – Systemic effects - General population	Inhalation	110 µg/m³
Long term – Systemic effects - Workers	Inhalation	600 µg/m³

▾PNEC

mesitylene;1,3,5-trimethylbenzene

Route of exposure:	Duration of exposure:	PNEC:
Freshwater		120 µg/L
Freshwater sediment		13.56 mg/kg
Intermittent release (freshwater)		120 µg/L
Marine water		120 µg/L
Marine water sediment		13.56 mg/kg
Sewage treatment plant		2.41 mg/L
Soil		2.34 mg/kg

2-ethylhexan-1-ol

Route of exposure:	Duration of exposure:	PNEC:
Freshwater		17 µg/L
Freshwater sediment		284 µg/kg
Intermittent release (freshwater)		170 µg/L
Marine water		1.7 µg/L
Marine water sediment		28.4 µg/kg
Predators		55 mg/kg
Sewage treatment plant		10 mg/L
Soil		47 µg/kg

mesitylene;1,3,5-trimethylbenzene

Route of exposure:	Duration of exposure:	PNEC:
Freshwater		101 µg/L
Freshwater sediment		7.86 mg/kg
Intermittent release (freshwater)		101 µg/L
Marine water		101 µg/L
Marine water sediment		7.86 mg/kg
Sewage treatment plant		2.02 mg/L
Soil		1.34 mg/kg

naphthalene

Route of exposure:	Duration of exposure:	PNEC:
Freshwater		2.4 µg/L
Freshwater sediment		67.2 µg/kg
Intermittent release (freshwater)		20 µg/L
Marine water		2.4 µg/L
Marine water sediment		67.2 µg/kg
Sewage treatment plant		2.9 mg/L
Soil		53.3 µg/kg

propylbenzene;cumene

Route of exposure:	Duration of exposure:	PNEC:
Freshwater		35 µg/L
Freshwater sediment		3.22 mg/kg
Intermittent release (freshwater)		12 µg/L
Marine water		3.5 µg/L
Marine water sediment		322 µg/kg
Sewage treatment plant		200 mg/L
Soil		624 µg/kg

Tricarbonyl(methylcyclopentadienyl)manganese

Route of exposure:	Duration of exposure:	PNEC:
Freshwater		210 ng/L
Intermittent release (freshwater)		2.1 µg/L
Marine water		21 ng/L
Soil		16 µg/kg

8.2 ▾Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

▾Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
No special when used as intended.			

Skin protection

Type	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection

Material	Glove thickness (mm)	Type/Category	Standards	
Nitrile	0.38	> 240	EN374-2, EN374-3, EN388	

Eye protection

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Liquid

Colour
Brown

Odour / Odour threshold
Solvent

pH
No data available

Density (g/cm³)
0.8

Kinematic viscosity
7 mm²/s (40 °C)

Particle characteristics
Not applicable - product is a liquid

Phase changes

Melting point/Freezing point (°C)
No data available

Softening point/range (waxes and pastes) (°C)
Does not apply to liquids.

Boiling point (°C)
>160

Vapour pressure
No data available

Relative vapour density
No data available

Decomposition temperature (°C)
No data available

Data on fire and explosion hazards

Flash point (°C)
>61

Flammability (°C)
No data available

Auto-ignition temperature (°C)
No data available

Lower and upper explosion limit (% v/v)
No data available

Solubility

Solubility in water
Insoluble

n-octanol/water coefficient
Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)
Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Evaporation rate (n-butylacetate = 100)
No data available

Other physical and chemical parameters
No data available.

▾Oxidizing properties
Testing not relevant or not possible due to the nature of the product.

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products
The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics OECD 403 Rat Inhalation LC50 (4 hours) >5000 mg/m³
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics OECD 401 Rat Oral LD50 >5000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics OECD 402 Rabbit Dermal LD50 >5000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Polyolefin alkyl phenol alkyl amine OECD 402 Rat Dermal LD50 >2000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Polyolefin alkyl phenol alkyl amine OECD 423 Rat Oral LD50 >5000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C10, aromatics, > 1% naphthalene OECD 403 Rat Inhalation LC50 (dust) >4778 mg/kg

Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C10, aromatics, > 1% naphthalene OECD 403 Rat Inhalation LC50 >4688 mg/m³
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C10, aromatics, > 1% naphthalene OECD 402 Rabbit Dermal LD50 >2000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C10, aromatics, > 1% naphthalene OECD 401 Rat Oral LD50 6318 mg/kg
Product/substance Species: Route of exposure: Test: Result:	Alkaryl polyether Rabbit Dermal LD50 >3000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Alkaryl polyether OECD 423 Rat Oral LD50 >2000 mg/kg
Product/substance Species: Route of exposure: Test: Result:	Tricarbonyl(methylcyclopentadienyl)manganese Rat Inhalation LC50 -.247 mg/L
Product/substance Species: Route of exposure: Test: Result:	Tricarbonyl(methylcyclopentadienyl)manganese Rabbit Dermal LD50 196.7 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Tricarbonyl(methylcyclopentadienyl)manganese OECD 403 Rat Oral LD50 58 mg/kg
Product/substance Species: Route of exposure: Test: Result:	1,2,4-trimethylbenzene Rat Inhalation LC50 10200 mg/m³
Product/substance Species: Route of exposure: Test: Result:	1,2,4-trimethylbenzene Rat Dermal LD50 >3440 mg/kg

Product/substance Test method: Species: Route of exposure: Test: Result:	naphthalene OECD 403 Rat Inhalation LC50 >0.4 mg/L
Product/substance Test method: Species: Route of exposure: Test: Result:	naphthalene OECD 402 Rat Dermal LD50 >16000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	naphthalene OECD 401 Mouse Oral LD50 533 mg/kg
Product/substance Species: Test: Result:	mesitylene;1,3,5-trimethylbenzene Rat LC50 10.2 mg/L
Product/substance Species: Route of exposure: Test: Result:	mesitylene;1,3,5-trimethylbenzene Rat Dermal LD50 >3440 mg/kg
Product/substance Species: Route of exposure: Test: Result:	mesitylene;1,3,5-trimethylbenzene Rat Oral LD50 >5000 mg/kg
Product/substance Species: Route of exposure: Test: Result:	propylbenzene;cumene Rabbit Dermal LD50 >10000 mg/kg
Product/substance Species: Route of exposure: Test: Result:	propylbenzene;cumene Rat Oral LD50 2260 mg/kg

Harmful if inhaled.

Skin corrosion/irritation

Product/substance Test method: Species: Result:	Polyolefin alkyl phenol alkyl amine OECD 404 Rabbit Adverse effect observed (Irritating)
Product/substance Test method: Species: Result:	Tricarbonyl(methylcyclopentadienyl)manganese OECD 404 Rabbit Adverse effect observed (Moderately irritating)

Product/substance Species: Result:	1,2,4-trimethylbenzene Rabbit Adverse effect observed (Irritating)
Product/substance Species: Result:	mesitylene;1,3,5-trimethylbenzene Rabbit Adverse effect observed (Irritating)

Causes skin irritation.

Serious eye damage/irritation

Product/substance Test method: Species: Result:	mesitylene;1,3,5-trimethylbenzene OECD 405 Rabbit Adverse effect observed (Irritating)

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

Product/substance Species: Route of exposure: Duration: Test: Conclusion:	naphthalene Rat Inhalation 24 months NOAEL Adverse effect observed
Product/substance Test method: Species: Route of exposure: Duration: Conclusion:	propylbenzene;cumene OECD 451 Rat Inhalation 24 months Adverse effect observed

Reproductive toxicity

Product/substance Test method: Species: Conclusion:	Polyolefin alkyl phenol alkyl amine OECD 421 Rat, female Adverse effect observed (Irritating)

STOT-single exposure

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

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

▾Endocrine disrupting properties

This mixture/product does not contain any substances considered to have hormone-disrupting properties in relation to health.

Other information

naphthalene has been classified by IARC as a group 2B carcinogen.
propylbenzene;cumene has been classified by IARC as a group 2B carcinogen.

SECTION 12: Ecological information

12.1. ▾Toxicity

Product/substance Species: Duration: Test: Result:	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Daphnia, Daphnia magna 48 hours EL0 1000 mg/L
Product/substance Species: Duration: Test: Result:	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Fish, Oncorhynchus mykiss 96 hours LL0 1000 mg/L
Product/substance Species: Duration: Test: Result:	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Algae, Pseudokirchneriella subcapitata 72 hours EL0 1000 mg/L
Product/substance Species: Duration: Test: Result:	Polyolefin alkyl phenol alkyl amine Algae 96 hours EC50 5.4 mg/L
Product/substance Species: Duration: Test: Result:	Polyolefin alkyl phenol alkyl amine Algae 96 hours NOEC 3.65 mg/L
Product/substance Species: Duration: Test: Result:	Polyolefin alkyl phenol alkyl amine Daphnia, Daphnia magna 21 days NOEC 3.38 mg/L
Product/substance Species: Duration: Test: Result:	Hydrocarbons, C10, aromatics, > 1% naphthalene Algae, Pseudokirchneriella subcapitata 72 hours EL50 >1 mg/L
Product/substance Species: Duration: Test: Result:	Hydrocarbons, C10, aromatics, > 1% naphthalene Daphnia, Daphnia magna 48 hours EL50 1.4 mg/L
Product/substance Species: Duration: Test: Result:	Hydrocarbons, C10, aromatics, > 1% naphthalene Fish 96 hours LL50 2-5 mg/L
Product/substance Species: Duration: Test: Result:	Hydrocarbons, C10, aromatics, > 1% naphthalene Algae, Pseudokirchneriella subcapitata 72 hours NOELR 1 mg/L

Product/substance Species: Duration: Test: Result:	Hydrocarbons, C10, aromatics, > 1% naphthalene Daphnia, Daphnia magna 21 days NOELR 0.48 mg/L
Product/substance Test method: Species: Duration: Test: Result:	Tricarbonyl(methylcyclopentadienyl)manganese OECD 201 Algae 48 hours EC50 1.7 mg/L
Product/substance Test method: Species: Duration: Test: Result:	Tricarbonyl(methylcyclopentadienyl)manganese OECD 201 Algae 48 hours EC50 0.41 mg/L
Product/substance Species: Duration: Test: Result:	Tricarbonyl(methylcyclopentadienyl)manganese Daphnia, Daphnia magna 48 hours EC50 0.83 mg/L
Product/substance Test method: Species: Duration: Test: Result:	Tricarbonyl(methylcyclopentadienyl)manganese OECD 203 Fish, Cyprinus carpio 96 hours LC50 0.21 mg/L
Product/substance Species: Duration: Test: Result:	1,2,4-trimethylbenzene Daphnia, Daphnia magna 48 hours LC50 3.6 mg/L
Product/substance Species: Duration: Test: Result:	1,2,4-trimethylbenzene Fish, Pimephales promelas 96 hours LC50 7.72 mg/L
Product/substance Species: Duration: Test: Result:	naphthalene Algae, Pseudokirchneriella subcapitata 96 hours EC50 2.96 mg/L
Product/substance Species: Duration: Test: Result:	naphthalene Daphnia, Daphnia magna 48 hours EC50 2.16 mg/L
Product/substance Species: Duration: Test: Result:	naphthalene Fish, Oncorhynchus gorbuscha 96 hours LC50 0.96 mg/L

Product/substance Species: Duration: Test: Result:	naphthalene Daphnia, Daphnia pulex 125 days NOEC 0.59 mg/L
Product/substance: Species: Duration: Test: Result:	naphthalene Fish, Oncorhynchus gorbuscha 40 days NOEC 0.12 mg/L
Product/substance Species: Duration: Test: Result:	mesitylene;1,3,5-trimethylbenzene Algae, Desmodesmus subspicatus 48 hours EL50 53 mg/L
Product/substance Species: Duration: Test: Result:	mesitylene;1,3,5-trimethylbenzene Daphnia, Daphnia magna 48 hours LL50 6 mg/L
Product/substance Species: Duration: Test: Result:	mesitylene;1,3,5-trimethylbenzene Fish, Carassius auratus 96 hours LL50 12.52 mg/L
Product/substance Species: Duration: Test: Result:	mesitylene;1,3,5-trimethylbenzene Algae, Desmodesmus subspicatus 48 hours EL10 16 mg/L
Product/substance Species: Duration: Test: Result:	mesitylene;1,3,5-trimethylbenzene Daphnia, Daphnia magna 21 days NOEC 0.4 mg/L
Product/substance Species: Duration: Test: Result:	propylbenzene;cumene Algae, Desmodesmus subspicatus 72 hours EC50 2.01 mg/L
Product/substance Species: Duration: Test: Result:	propylbenzene;cumene Daphnia, Daphnia magna 48 hours EC50 2.14 mg/L
Product/substance Species: Duration: Test: Result:	propylbenzene;cumene Bacteria 3 hours EL50 >2000 mg/L
Product/substance Species: Duration: Test: Result:	propylbenzene;cumene Algae, Desmodesmus subspicatus 72 hours EC10 1.35 mg/L

Product/substance Species: Duration: Test: Result:	propylbenzene;cumene Daphnia, Daphnia magna 21 days NOEC 0.35 mg/L
Product/substance: Species: Duration: Test: Result:	propylbenzene;cumene Fish, Danio rerio 28 days NOEC 0.38 mg/L
Product/substance Species: Duration: Test: Result:	propylbenzene;cumene Fish, Pimephales promelas 28 days NOEC 0.38 mg/L

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Product/substance Biodegradable: Test method: Result:	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Yes OECD 301 F >60%
Product/substance Biodegradable: Test method: Result:	Polyolefin alkyl phenol alkyl amine No OECD 301 D 4 % - Not readily - 28 days
Product/substance Biodegradable: Result:	Tricarbonyl(methylcyclopentadienyl)manganese No 4% - 56 days
Product/substance Biodegradable: Result:	naphthalene No 0 to 2 % - Not readily - 28 days
Product/substance Biodegradable: Result:	mesitylene;1,3,5-trimethylbenzene No 42% 28 days
Product/substance Biodegradable: Result:	propylbenzene;cumene No 70% 28 days

12.3. Bioaccumulative potential

Product/substance Potential bioaccumulation: LogPow: BCF:	Hydrocarbons, C10, aromatics, > 1% naphthalene Yes 2.8-6.5 99-5780
Product/substance Potential bioaccumulation: LogPow: BCF:	Tricarbonyl(methylcyclopentadienyl)manganese No data available. 3.7 No data available.
Product/substance Potential bioaccumulation: LogPow: BCF:	1,2,4-trimethylbenzene No data available. 3.63 243

Product/substance Potential bioaccumulation: LogPow: BCF:	naphthalene No data available. 36.5-168 3.4
Product/substance Potential bioaccumulation: LogPow: BCF:	mesitylene;1,3,5-trimethylbenzene No data available. 3.42 161
Product/substance Potential bioaccumulation: LogPow: BCF:	propylbenzene;cumene No data available. 3.55 35.48

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. ▾Endocrine disrupting properties
This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects
This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product is covered by the regulations on hazardous waste.
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 6 - Acute toxicity
HP 14 – Ecotoxic
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code
Not applicable.

Contaminated packing
Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group
** Environmental hazards

Additional information
Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user
Not applicable.

14.7. Maritime transport in bulk according to IMO instruments
No data available.

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Tactile warning.
If this product is sold in retail, it must be delivered with child-resistant fastening.

Sources

The Management of Health and Safety at Work Regulations 1999.
The Health and Safety at Work etc. Act 1974 Regulations 2013.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

EUH066, Repeated exposure may cause skin dryness or cracking.
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.
H310, Fatal in contact with skin.
H315, Causes skin irritation.
H319, Causes serious eye irritation.
H330, Fatal if inhaled.
H332, Harmful if inhaled.
H335, May cause respiratory irritation.
H336, May cause drowsiness or dizziness.
H351, Suspected of causing cancer.
H372, Causes damage to organs through prolonged or repeated exposure. (Lung) (Inhalation)
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.

The full text of identified uses as mentioned in section 1

= Additives to petrol or diesel fuel

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

▾The safety data sheet is validated by

Product Safety Department

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en