



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING1.1. Product identifier**Product Name** PatFluid®1.2. Relevant identified uses of the substance or mixture and uses advised against**Identified uses** Fuel additive.1.3. Details of the supplier of the safety data sheet**Supplier** CDTi
Bourne House,
475 Godstone Road,
Whyteleafe,
Surrey,
CR3 0BL
United Kingdom
Tel: +44 (0) 1883 621 048
Contact Person safety@cdti.com1.4. Emergency telephone number**National emergency telephone number** <https://poisoncentres.echa.europa.eu/>

SECTION 2: HAZARDS IDENTIFICATION2.1. Classification of the substance or mixture**Classification (EC 1272/2008)****Physical hazards** Not Classified
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361d Asp. Tox. 1 - H304
Environmental hazards Not Classified2.2. Label elements

Hazard Pictograms**Signal word**

Danger

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

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

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

P331 Do NOT induce vomiting.

P501 Dispose of contents/ container in accordance with local regulations.

Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

Odourless Kerosene, 2-Ethylhexanoic Acid, Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Supplementary precautionary statements

P201 Obtain special instructions before use.

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

P264 Wash contaminated skin thoroughly after handling.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P321 Specific treatment (see medical advice on this label).

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P337+P313 If eye irritation persists: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

2.3. Other hazards

The product does not contain any substance that is classified as PBT or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS3.2. Mixtures

Odourless Kerosene 60-100%

CAS number: 64742-47-8 EC number: 265-149-8

Classification

Asp. Tox. 1 - H304

Cerium (III) Ethyl Hexanoate 10-30%

CAS number: 56797-01-4 EC number: 260-386-3

Classification

Acute Tox. 4 - H302

Acute Tox. 4 - H312

Acute Tox. 4 - H332

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

STOT SE 3 - H335

2-Ethylhexanoic Acid 5-10%

CAS number: 149-57-5 EC number: 205-743-6 REACH registration number: 01-2119488942-23-XXXX

Classification

Repr. 2 - H361d

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% 1-5%

Aromatics

CAS number: — EC number: 919-857-5

Classification

Flam. Liq. 3 - H226

STOT SE 3 - H336

Asp. Tox. 1 - H304

2-Methoxymethylethoxypropanol 1-5%

CAS number: 34590-94-8 EC number: 252-104-2



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Classification

Not Classified

1,2,4-TRIMETHYLBENZENE

< 0.1%

CAS number: 95-63-6

EC number: 202-436-9

Classification

Flam. Liq. 3 - H226

Acute Tox. 4 - H332

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

STOT SE 3 - H335

Aquatic Chronic 2 - H411

PHOSPHORIC ACID ...%

<1%

CAS number: 7664-38-2

EC number: 231-633-2

Classification

Skin Corr. 1B - H314

Eye Dam. 1 - H318

NAPHTHALENE

< 0.01%

CAS number: 91-20-3

EC number: 202-049-5

M factor (Acute) = 1

M factor (Chronic) = 1

Classification

Acute Tox. 4 - H302

Carc. 2 - H351

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

CUMENE

< 0.01%

CAS number: 98-82-8

C number: 202-704-5

Classification

Flam. Liq. 3 - H226

STOT SE 3 - H335

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

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	Get medical attention if any discomfort continues.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	If medical attention is not immediately available, Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.

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. Get medical attention promptly if symptoms occur after washing.
Inhalation	Vapours may cause drowsiness and dizziness.
Ingestion	Nausea, vomiting. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

Notes for the doctor	No specific recommendations. Treat symptomatically.
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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Do not use water, if avoidable.
Unsuitable extinguishing media	Water.

5.2. Special hazards arising from the substance or mixture



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Specific hazards No unusual fire or explosion hazards noted.
Hazardous combustion products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.
Special protective equipment for firefighting Use protective equipment appropriate for surrounding materials.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Small Spillages: Absorb spillage with sand or other inert absorbent.
For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in closed original container at temperatures between 0°C and 40°C.

Storage class Chemical storage.

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

Occupational exposure limits

2-Methoxymethylethoxypropanol

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³
Sk

1,2,4-TRIMETHYLBENZENE

Long-term exposure limit (8-hour TWA): 25 ppm 125

PHOSPHORIC ACID ...%

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³
Short-term exposure limit (15-minute): WEL 2 mg/m³

NAPHTHALENE

Long-term exposure limit (8-hour TWA): WEL 10 ppm 53 mg/m³
Short-term exposure limit (15-minute): WEL 15 ppm 80 mg/m³

CUMENE

Long-term exposure limit (8-hour TWA): WEL 25 ppm(Sk) 125 mg/m³(Sk)
Short-term exposure limit (15-minute): WEL 50 ppm(Sk) 250 mg/m³(Sk)

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

8.2. Exposure controls

Protective 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: Tight-fitting safety glasses.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Hygiene measures

Wash contaminated clothing before reuse. Wash hands after handling.



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Respiratory protection No specific recommendations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Amber.
Odour	Almost odourless.
pH	Scientifically unjustified.
Melting Point	Not determined.
Initial boiling point and range	192 - 256°C @ 760 mm Hg
Flash point	78 - 79°C Closed cup.
Evaporation rate	Not determined.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.6 Upper flammable/explosive limit: 7.0
Vapour pressure	350 Pa @ 20°C
Vapour density	> 1 (Air = 1)
Relative density	0.84 - 0.88 @ 15°C
Solubility(ies)	Immiscible with water.
Auto-ignition temperature	225°C
Viscosity	Kinematic viscosity \leq 20.5 mm ² /s. 5 - 9 m ² /s @ 40°C
Explosive properties	Scientifically unjustified.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 83.7 %.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Avoid the following conditions: Heat, sparks, flames.

10.3. Possibility of hazardous reactions



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Possibility of hazardous reactions

Not relevant. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid

Avoid heat. Avoid contact with the following materials: Strong oxidising agents.

10.5. Incompatible materials

Materials to avoid

Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological effects

No information available.

Acute toxicity - oral

ATE oral (mg/kg)

4,761.9

Acute toxicity – dermal

ATE dermal (mg/kg)

10,476.19

Acute toxicity – inhalation

ATE inhalation (vapours mg/l)

104.76

Skin corrosion/irritation

Skin corrosion/irritation

Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation

Causes 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



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

Reproductive toxicity
Reproductive toxicity – fertility Possible risk of adverse reproductive effects.

Specific target organ toxicity - single exposure
STOT - single exposure Based on available data the classification criteria are not met.

Aspiration hazard
Aspiration hazard May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity Low acute toxicity to aquatic organisms.

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in Soil

Mobility The product is insoluble in water and will spread on the water surface.

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 None known.

SECTION 13: DISPOSAL CONSIDERATIONS



13.1. Waste treatment methods

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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.



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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).

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions on use are known for this product.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision date

26 MARCH 2019

Revision

8

Supersedes date

17 MAY 2018

Hazard statements in full

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
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.
H361d Suspected of damaging 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.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the



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company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/herself as to the suitability of such information for his/her own particular use.