



SAFETY DATA SHEET

STP® Petrol Injector Cleaner

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

1.1. Product identifier

Product name STP® Petrol Injector Cleaner
Product number 865515

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

Identified uses Fuel additive.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Quest Consumables Ltd
 Stock House
 Seymour Road
 Nuneaton
 Warwickshire
 CV11 4LB
 UK
 Tel: +44 2476 322126
 Fax: +44 2476 322117
 sales@questconsumables.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified
Health hazards Asp. Tox. 1 - H304
Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xn; R65. R66, R52/53

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

2.2. Label elements

STP® Petrol Injector Cleaner

Pictogram



Signal word	Danger
Hazard statements	H304 May be fatal if swallowed and enters airways. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P102 Keep out of reach of children. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 Do NOT induce vomiting. P501 Dispose of contents/container in accordance with national regulations.
Supplemental label information	EUH066 Repeated exposure may cause skin dryness or cracking.
Contains	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics, Solvent naphtha (petroleum), heavy arom., Solvent naphtha (petroleum), light arom.
Supplementary precautionary statements	P273 Avoid release to the environment.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics		50 - 100%
CAS number: —	EC number: 926-141-6	REACH registration number: 01-2119456620-43-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Asp. Tox. 1 - H304	Xn; R65. R66	
Solvent naphtha (petroleum), heavy arom.		5 - <10%
CAS number: 64742-94-5	EC number: 265-198-5	
Classification	Classification (67/548/EEC or 1999/45/EC)	
STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Xn; R65. N; R51/53. R66, R67	
Polyolefin alkyl phenol alkyl amine		2.5 - <5%
CAS number: —		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Skin Irrit. 2 - H315	Xi; R38	

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Solvent naphtha (petroleum), light arom.	1 - <2.5%
CAS number: 64742-95-6	EC number: 265-199-0
Contains <0.1% benzene	
Classification Flam. Liq. 3 - H226 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) Xn; R65. Xi; R37. N; R51/53. R10, R67
1,2,4-Trimethylbenzene	1 - <2.5%
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	Classification (67/548/EEC or 1999/45/EC) Xn; R20. Xi; R36/37/38. N; R51/53. R10
Mesitylene	0.5 - <1%
CAS number: 108-67-8	EC number: 203-604-4
Classification Flam. Liq. 3 - H226 STOT SE 3 - H335 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) Xi; R37. N; R51/53. R10
Naphthalene	0.5 - <1%
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	Classification (67/548/EEC or 1999/45/EC) Xn; R22. Carc. Cat. 3 R40. N; R50/53

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if symptoms are severe or persist after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse.

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

Inhalation Vapours may cause drowsiness and dizziness.

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

Skin contact Prolonged skin contact may cause redness and irritation.

Eye contact May cause temporary eye irritation.

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

Notes for the doctor The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

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 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 sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations.

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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, 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/personal protection

8.1. Control parameters

Occupational exposure limits

1,2,4-Trimethylbenzene

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m³

Mesitylene

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m³

Naphthalene

Short-term exposure limit (15-minute): WEL 15 ppm 80 mg/m³

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

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

Liquid.

Colour

Colourless to pale yellow.

Odour

Characteristic.

Odour threshold

Not determined.

pH

Not determined.

Melting point

Not determined.

Initial boiling point and range

Not determined.

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Flash point	70.5°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	0.8232
Bulk density	821.8 kg/m ³
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO₂). Carbon monoxide (CO). Toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

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Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
ATE inhalation (vapours mg/l)	749.42
<u>Skin corrosion/irritation</u>	
Animal data	Based on available data the classification criteria are not met.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Based on available data the classification criteria are not met.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Skin sensitisation	Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
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.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Kinematic viscosity ≤ 20.5 mm ² /s. Asp. Tox. 1 - H304 Aspiration hazard if swallowed.
<u>Skin contact</u>	
Skin contact	Repeated exposure may cause skin dryness or cracking.

Toxicological information on ingredients.

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

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 15,000.0

Species Rat

Notes (oral LD₅₀) REACH dossier information. Read across data.

ATE oral (mg/kg) 15,000.0

Acute toxicity - dermal

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Acute toxicity dermal (LD₅₀) 3,160.0 mg/kg)

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information. Read across data.

ATE dermal (mg/kg) 3,160.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 4,951.0

Species Rat

Notes (inhalation LC₅₀) REACH dossier information. Read across data.

ATE inhalation (vapours mg/l) 4,951.0

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Skin sensitisation

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

Germ cell mutagenicity

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

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

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Fertility, One-generation study - NOAEL 750 mg/kg/day, Oral, Rat F1 REACH dossier information. Read across data.

Reproductive toxicity - development Maternal toxicity: - NOAEL: >= 5220 mg/m³, Inhalation, Rat REACH dossier information.

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

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

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Solvent naphtha (petroleum), heavy arom.

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 590.0

Species Rat

Notes (inhalation LC₅₀) US Department of Commerce NTIS Vol. OTS0534724

ATE inhalation (vapours mg/l) 590.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 24 hours, Rabbit Erythema/eschar score: Moderate to severe erythema (3). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information.

Serious eye damage/irritation

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

Skin sensitisation

Skin sensitisation Buehler test - Guinea pig: Not 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 LOAEL 250 mg/kg/day, Dermal, Mouse REACH dossier information. No evidence of carcinogenicity in animal studies.

Reproductive toxicity

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Reproductive toxicity - fertility Fertility - NOAEL 750 mg/kg/day, Oral, Rat P REACH dossier information.

Reproductive toxicity - development Embryotoxicity: - NOAEL: 1000 mg/kg/day, Oral, Rat REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 750 mg/kg/day, Oral, Rat NOAEC \geq 24 mg/m³, Inhalation, Rat REACH dossier information.

Aspiration hazard

Aspiration hazard 1 - 2.4 cSt @ 40°C/104°F REACH dossier information. Kinematic viscosity \leq 20.5 mm²/s.

Solvent naphtha (petroleum), light arom.

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 2,001.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Moderate to severe erythema (3). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, 1-2 seconds, Rabbit REACH dossier information. Not irritating.

Skin sensitisation

Skin sensitisation Buehler test - Guinea pig: Not 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. Read across data.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEC \geq 20000 mg/m³, Inhalation, Rat REACH dossier information.

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Reproductive toxicity - development Maternal toxicity: - NOAEL: 23900 mg/m³, Inhalation, Rat REACH dossier information.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 3 - H335, H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEC 1402 mg/m³, Inhalation, Rat, Mouse REACH dossier information.

Aspiration hazard

Aspiration hazard < 1 cSt @ 37.8°C/100°F 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 LD₅₀) 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/irritation

Serious eye damage/irritation Dose: 0.2 ml, 1 second, Rabbit REACH dossier information. Read across data. Slightly irritating.

Skin sensitisation

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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 toxicity - 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/irritation

Serious eye damage/irritation Dose: 0.2 ml, 1 second, Rabbit Not irritating. REACH dossier information. Read across data.

Skin sensitisation

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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 - single exposure

STOT - single exposure STOT SE 3 - H335 May cause respiratory irritation.

Specific target organ toxicity - 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.

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 LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 2,500.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) 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

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Serious eye damage/irritation	Dose: 0.1 g, 24 hours, Rabbit REACH dossier information. Not irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
<u>Carcinogenicity</u>	
IARC carcinogenicity	IARC Group 2B Possibly carcinogenic to humans.
NTP carcinogenicity	Reasonably anticipated to be a human carcinogen.
<u>Reproductive toxicity</u>	
Reproductive toxicity - development	Developmental toxicity: - NOEL: 400 mg/kg/day, Oral, Rabbit REACH dossier information.

2-ethylhexan-1-ol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 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
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Skin corrosion/irritation

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

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

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Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 500 mg/kg/day, Oral, Rat REACH dossier information.
<u>Reproductive toxicity</u>	
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 2520 mg/kg/day, Dermal, Rat REACH dossier information.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL 250 mg/kg/day, Oral, Rat REACH dossier information.
<u>Aspiration hazard</u>	
Aspiration hazard	4.3 mPa s @ 40°C/104°F REACH dossier information.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Aquatic Chronic 3 - H412

Ecological information on ingredients.

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

Acute toxicity - fish	LL ₅₀ , 96 hours: > 1000 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information.
Acute toxicity - aquatic invertebrates	EL ₅₀ , 48 hours: > 1000 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EL ₅₀ , 72 hours: > 1000 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
Chronic 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.

Solvent naphtha (petroleum), heavy arom.

Acute toxicity - fish	LL ₅₀ , 96 hours: 2 - 5 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information.
Acute toxicity - aquatic invertebrates	EL ₅₀ , 48 hours: 1.4 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EL ₅₀ , 24 hours: 1 - 3 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
Chronic toxicity - fish early life stage	NOEL, 28 days: 0.098 mg/l, Onchorhynchus mykiss (Rainbow trout) QSAR REACH dossier information.

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Chronic toxicity - aquatic invertebrates EL₅₀, 21 days: 0.89 mg/l, Daphnia magna
REACH dossier information.

Solvent naphtha (petroleum), light arom.

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

Acute toxicity - fish LL₅₀, 96 hours: 8.2 mg/l, Pimephales promelas (Fat-head Minnow)
REACH dossier information.

Acute toxicity - aquatic invertebrates EL₅₀, 48 hours: 4.5 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EL₅₀, 72 hours: 3.1 mg/l, Pseudokirchneriella subcapitata
REACH dossier information.

Acute toxicity - microorganisms EC₅₀, 40 hours: 15.41 mg/l, Tetrahymena pyriformis
REACH dossier information.
QSAR

Chronic toxicity - aquatic invertebrates NOELR, 21 days: 2.6 mg/l, Daphnia magna
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

Mesitylene

Toxicity Aquatic Chronic 2 - H411 Toxic to aquatic life with 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, Desmodemus subspicatus
REACH dossier information.

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 2 mg/l, Daphnia magna
REACH dossier information.

Naphthalene

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

STP® Petrol Injector Cleaner

M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 6.08 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2.16 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - microorganisms	IC ₅₀ , 24 hours: 29 mg/l, Nitrosomonas REACH dossier information.
<u>Chronic aquatic toxicity</u>	
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.

2-ethylhexan-1-ol

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

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

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

Biodegradation	Water - Degradation ~ 5%: 3 days Water - Degradation 69: 28 days REACH dossier information. Readily biodegradable but failing the 10-day window.
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Solvent naphtha (petroleum), heavy arom.

Biodegradation	Water - Degradation 61 %: 28 days Readily biodegradable but failing the 10-day window. REACH dossier information.
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1,2,4-Trimethylbenzene

Phototransformation	Air - DT ₅₀ : 12 hours REACH dossier information.
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Mesitylene

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Biodegradation - Degradation (50%): 4.4 days
REACH dossier information.
QSAR
The substance is readily biodegradable.

Naphthalene

Biodegradation - Degradation (99.9%): 15.2±8.4 days
REACH dossier information.
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.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

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

Partition coefficient Scientifically unjustified. REACH dossier information.

Solvent naphtha (petroleum), heavy arom.

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Solvent naphtha (petroleum), light arom.

Bioaccumulative potential BCF: 10 - 2500, Freshwater fish REACH dossier information. Calculation method.

1,2,4-Trimethylbenzene

Bioaccumulative potential BCF: 243, Pimephales promelas (Fat-head Minnow) QSAR REACH dossier information.

Partition coefficient log Kow: 3.65 REACH dossier information.

Mesitylene

Bioaccumulative potential BCF: 161, Pimephales promelas (Fat-head Minnow) REACH dossier information.
QSAR

Naphthalene

Bioaccumulative potential BCF: 36.5 - 168, Cyprinus carpio (Common carp) REACH dossier information.

Partition coefficient log Pow: 3.4 REACH dossier information.

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2-ethylhexan-1-ol

Bioaccumulative potential BCF: 25.33, REACH dossier information.

Partition coefficient log Pow: 2.9 REACH dossier information.

12.4. Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.

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

Mobility The product has poor water-solubility.

Surface tension 26.4 mN/m @ 25°C

Solvent naphtha (petroleum), heavy arom.

Mobility The product contains organic solvents which will evaporate easily from all surfaces.
The product has poor water-solubility.

Solvent naphtha (petroleum), light arom.

Adsorption/desorption coefficient Soil - log Koc : 1.783 - 2.36 REACH dossier information. Calculation method.

1,2,4-Trimethylbenzene

Adsorption/desorption coefficient Soil - log Koc 3.04 REACH dossier information. QSAR

Mesitylene

Adsorption/desorption coefficient Soil - log Koc : 2.87 REACH dossier information. QSAR

2-ethylhexan-1-ol

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

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

STP® Petrol Injector Cleaner

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 MARPOL73/78 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 The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
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).

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 Asp. Tox. 1 - H304: Calculation method. Aquatic Chronic 3 - H412: Calculation method. EUH066: Expert judgement.

Revision comments Section 3: Composition/information on ingredients // 3.2 Mixtures. Section 8: Exposure controls/personal protection // 8.1. Control parameters. Section 11: Toxicological information // 11.1. Information on toxicological effects. Section 12: Ecological information // 12.1. Toxicity. Section 12: Ecological information // 12.2. Persistence and degradability. Section 12: Ecological information // 12.3. Bioaccumulative potential. Section 12: Ecological information // 12.4. Mobility in soil.

Revision date 15/05/2015

Revision 12

STP® Petrol Injector Cleaner

Supersedes date	30/05/2014
SDS number	102
Risk phrases in full	R10 Flammable. R20 Harmful by inhalation. R22 Harmful if swallowed. R36/37/38 Irritating to eyes, respiratory system and skin. R37 Irritating to respiratory system. R38 Irritating to skin. R40 Limited evidence of a carcinogenic effect. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.
Hazard statements in full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. 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.

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