



SAFETY DATA SHEET

STP® Engine Flush

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® Engine Flush
Product number 865512

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

Identified uses Oil additive. Engine cleaner.
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
 Email: 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

Not Classified

Classification (67/548/EEC or 1999/45/EC)

Xn; R65. R66

Human health

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

2.2. Label elements

Pictogram

STP® Engine Flush



Signal word Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

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

Supplementary precautionary statements

P405 Store locked up.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS number: — EC number: 926-141-6 REACH registration number: 01-2119456620-43-XXXX	50 - 100%
Classification Asp. Tox. 1 - H304	Classification (67/548/EEC or 1999/45/EC) Xn; R65. R66
1,2-diaminoethane CAS number: 107-15-3 EC number: 203-468-6 REACH registration number: 01-2119480383-37-XXXX	<0.025%
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 3 - H311 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Resp. Sens. 1B - H334 Skin Sens. 1B - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC or 1999/45/EC) Xn; R20/21/22. C; R34. R10, R42/43

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.

Skin contact

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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

Protective actions during firefighting

Avoid breathing fire gases or vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses.

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

STP® Engine Flush

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.

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-diaminoethane

Long-term exposure limit (8-hour TWA): WEL 10 ppm 25 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

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

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

Straw.

Odour

Characteristic.

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Odour threshold

Not determined.

pH

Not determined.

Melting point

Not determined.

Initial boiling point and range

Not determined.

Flash point

70°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

0.8242

Bulk density

822.7 kg/m³

Partition coefficient

Not determined.

Auto-ignition temperature

Not determined.

Decomposition Temperature

Not determined.

Viscosity

3.02 cSt @ 40°C

Explosive properties

Not considered to be explosive.

Oxidising properties

The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

9.2. Other information**Other information**

No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidising agents.

10.2. Chemical stability**Stability**

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Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Will not polymerise.

10.4. 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

Heating may generate the following products: Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Based on available data the classification criteria are not met.

Acute toxicity - dermal

Based on available data the classification criteria are not met.

Acute toxicity - inhalation

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

Based on available data the classification criteria are not met.

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

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

Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure

Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Kinematic viscosity ≤ 20.5 mm²/s. Asp. Tox. 1 - H304 Aspiration hazard if swallowed.

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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

Species

Rat

REACH dossier information. Read across data.

ATE oral (mg/kg)

15,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg)

3160

Species

Rabbit

REACH dossier information. Read across data.

ATE dermal (mg/kg)

3160.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l)

4951

Species

Rat

REACH dossier information. Read across data.

ATE inhalation (vapours mg/l)

4951.0

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

Dose: 0.1 ml, 1 second, Rabbit Not irritating. REACH dossier information. Read across data.

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

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

Reproductive toxicity

Reproductive toxicity - fertility

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

Reproductive toxicity - development

Maternal toxicity: - NOAEL: \geq 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

2.4 cSt @ 20°C Asp. Tox. 1 - H304

1,2-diaminoethane

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg)

866.0

Species

Rat

REACH dossier information.

ATE oral (mg/kg)

866.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg)

560.0

Species

Rabbit

REACH dossier information.

ATE dermal (mg/kg)

560.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l)

14.7

Species

Rat

REACH dossier information.

ATE inhalation (vapours mg/l)

14.7

Skin corrosion/irritation

Animal data

Dose: 2.5 x 2.5 cm, 1, 5, 15 minutes, Rabbit Erythema/eschar score: Moderate to severe erythema (3). REACH dossier information. Skin Corr. 1B - H314

Serious eye damage/irritation

Dose: 50 µl, 1 second, Rabbit REACH dossier information. Eye Dam. 1 - H318

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.

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Carcinogenicity

NOAEL 9 mg/kg/day, Oral, Rat REACH dossier information.

Reproductive toxicity

Reproductive toxicity - fertility

Two-generation study - NOAEL 227 mg/kg/day, Oral, Rat F1 REACH dossier information.

Reproductive toxicity - development

Maternal toxicity: - LOAEL: 454 mg/kg/day, Oral, Rat REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

NOAEL 22 mg/kg/day, Oral, Rat REACH dossier information.

Aspiration hazard

1.265 - 1.725 mPa s @ 25°C/77°F REACH dossier information.

SECTION 12: Ecological Information

12.1. Toxicity

Not considered toxic to fish.

Ecological information on ingredients.

Hydrocarbons, 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.

1,2-diaminoethane

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

EC₅₀, 72 hours: 645 mg/l, Pseudokirchneriella subcapitata REACH dossier information.

Acute toxicity - microorganisms

EC₅₀, 2 hours: 3.2 mg/l, Nitrifying bacteria 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.

12.2. Persistence and degradability

Persistence and degradability

No data available.

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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.

1,2-diaminoethane

Persistence and degradability

REACH dossier information. Read across data.

Phototransformation

Air - DT₅₀ : 6.076 hours REACH dossier information. QSAR

Biodegradation

Water - Degradation (95%): 28 days REACH dossier information. The substance is readily biodegradable.

12.3. 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.

1,2-diaminoethane

Partition coefficient

log Pow: -4.42 REACH dossier information. QSAR

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

1,2-diaminoethane

Adsorption/desorption coefficient

Soil - log Koc: 3.68 @ 25°C/77°F REACH dossier information.

Henry's law constant

0.6 Pa m³/mol @ 25°C/77°F REACH dossier information. Estimated value.

12.5. 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

STP® Engine Flush

General information

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

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

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. EUH066: Expert judgement.

Revision comments

Classification according to CLP Annex I.

Revision date 30/05/2014

Revision 10

Supersedes date 01/01/2014

SDS number 300

Risk phrases in full

STP® Engine Flush

- R10 Flammable.
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R34 Causes burns.
- R42/43 May cause sensitisation by inhalation and skin contact.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.

Hazard statements in full

- H226 Flammable liquid and vapour.
- 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.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H412 Harmful to aquatic life with long lasting effects.

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