

# SAFETY DATA SHEET STP® Engine Flush

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

#### 1.1. Product identifier

Product name STP® Engine Flush

Product number 62450

## 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

Armored Auto UK Ltd

Unit 16

Rassau Industrial Estate

Ebbw Vale Gwent NP23 5SD UK

Tel: +44 1495 350234 Fax: +44 1495 350431

euregulatory@eu.spectrumbrands.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 (EC 1272/2008)

Physical hazards Not Classified

**Health hazards** Asp. Tox. 1 - H304

Environmental hazards Not Classified

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

## 2.2. Label elements

## **Pictogram**



Signal word Danger

Hazard statements H304 May be fatal if swallowed and enters airways.

**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 P405 Store locked up.

statements

#### 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%

50 - 100%

aromatics

EC number: 926-141-6 CAS number: -REACH registration number: 01-

2119456620-43-XXXX

Classification

Asp. Tox. 1 - H304

1,2-diaminoethane <0.025%

CAS number: 107-15-3 EC number: 203-468-6 REACH registration number: 01-

2119480383-37-XXXX

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

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 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

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.

Odour threshold Not determined.

Not determined.

Melting point Not determined.

# STP® Engine Flush

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 Not determined.

explosive limits

Vapour pressure Not determined. Vapour density Not determined.

Relative density 0.8242

822.7 kg/m<sup>3</sup> **Bulk density** 

Partition coefficient Not determined. Not determined. **Auto-ignition temperature 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

Reactivity Oxidising agents.

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

products Hydrocarbons.

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

# STP® Engine Flush

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

Reproductive 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

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

**Skin contact** Repeated exposure may cause skin dryness or cracking.

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

Acute toxicity dermal (LD<sub>50</sub> 3,160.0

mg/kg)

# STP® Engine Flush

Species Rabbit

Notes (dermal LD₅o) REACH dossier information. Read-across data.

**ATE dermal (mg/kg)** 3,160.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC<sub>50</sub> vapours mg/l)

4.951.0

Species Rat

Notes (inhalation LC<sub>50</sub>) 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 Dose: 0.1 ml, 1 second, Rabbit Not irritating. REACH dossier information. Read-

damage/irritation 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

1,2-diaminoethane

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

866.0

# STP® Engine Flush

Species Rat

Notes (oral LD₅o) REACH dossier information.

**ATE oral (mg/kg)** 866.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 560.0

mg/kg)

Species Rabbit

Notes (dermal LD<sub>50</sub>) REACH dossier information.

ATE dermal (mg/kg) 560.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

14.7

**Species** Rat

Notes (inhalation LC<sub>50</sub>) 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

Serious eye

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

damage/irritation

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Sensitising. REACH dossier

information.

Germ cell mutagenicity

**Genotoxicity - in vitro**Gene mutation: Negative. REACH dossier information.

**Genotoxicity - in vivo**Chromosome aberration: Negative. REACH dossier information.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity -

information.

Reproductive toxicity -

development

fertility

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

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

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 22 mg/kg/day, Oral, Rat REACH dossier information.

**Aspiration hazard** 

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

# STP® Engine Flush

#### SECTION 12: Ecological Information

#### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

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

Acute toxicity - fish LL<sub>50</sub>, 96 hours: > 1000 mg/l, Onchorhynchus mykiss (Rainbow trout)

REACH dossier information.

Acute toxicity - aquatic

EL<sub>50</sub>, 48 hours: > 1000 mg/l, Daphnia magna

invertebrates

REACH dossier information.

Acute toxicity - aquatic

EL<sub>50</sub>, 72 hours: > 1000 mg/l, Pseudokirchneriella subcapitata

plants

REACH dossier information.

REACH dossier information.

Chronic toxicity - fish early

NOELR, 28 days: 0.173 mg/l, Onchorhynchus mykiss (Rainbow trout)

life stage

**QSAR** 

Chronic toxicity - aquatic

NOELR, 21 days: 1.22 mg/l, Daphnia magna

invertebrates

**OSAR** 

REACH dossier information.

#### 1,2-diaminoethane

Acute toxicity - fish LC₅o, 96 hours: 640 mg/l, Poecilia reticulata (Guppy)

REACH dossier information.

Acute toxicity - aquatic

EC<sub>50</sub>, 48 hours: 16.7 mg/l, Daphnia magna

invertebrates

REACH dossier information.

Acute toxicity - aquatic

EC<sub>50</sub>, 72 hours: 645 mg/l, Pseudokirchneriella subcapitata

plants

REACH dossier information.

Acute toxicity microorganisms EC<sub>50</sub>, 2 hours: 3.2 mg/l, Nitrifying bacteria

REACH dossier information.

Chronic toxicity - fish early NOEC, 28 days: > 10 mg/l, Gasterosteus aculeatus (Three-spined stickleback)

life stage

REACH dossier information.

Chronic toxicity - aquatic

NOEC, 21 days: 0.16 mg/l, Daphnia magna

invertebrates

REACH dossier information.

## 12.2. Persistence and degradability

Persistence and degradability No data available.

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

Biodegradation Water - Degradation ~ 5%: 3 days

> Water - Degradation 69: 28 days REACH dossier information.

Readily biodegradable but failing the 10-day window.

## 1,2-diaminoethane

# STP® Engine Flush

Persistence and degradability

REACH dossier information. Read across data.

Phototransformation

Water - DT₅o : 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

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

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.

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

Water - 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

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** 

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

# STP® Engine Flush

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

Nο

# 14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### SECTION 15: Regulatory information

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

National regulations EH40/2005 Workplace exposure limits.

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

# **SECTION 16: Other information**

Classification procedures according to Regulation (EC)

Asp. Tox. 1 - H304: Calculation method. EUH066: Expert judgement.

1272/2008

**Revision comments** Classification according to CLP Annex I.

Revision date 30/05/2014

Revision 10

Supersedes date 01/01/2014

SDS number 300

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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