

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.06.2013


Version number 33

Revision: 26.06.2013

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

- **1.1 Product identifier**
 - **Trade name:** PROTECTON® ENGINE CLEANER 400 ML
 - **Article number:** SER506
 - **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
 - **Application of the substance / the preparation** Cleaning material/ Detergent
 - **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Service Best International B.V.
De Run 4271 - 5503 LM Veldhoven
P.O. Box 76 - 5500 AB Veldhoven
The Netherlands
T. +31 (0)40 230 2379
T. +31 (0)40 230 2302
E. quality@servicebest.com
W. www.servicebest.com
 - **Further information obtainable from:** Quality Department; Heidi Manders
 - **1.4 Emergency telephone number:**
+31 (0)40 230 2332 (tijdens kantooruren)
- NVIC tel: 030-2748888 (24 uur per dag)
Uitsluitend bestemd om artsen te informeren bij acute vergiftigingen

2 Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 -  **F+; Extremely flammable**
 - **R12:** Extremely flammable.
 - **R66:** Repeated exposure may cause skin dryness or cracking.
 - **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
Warning! Pressurized container.
 - **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
-
- **2.2 Label elements**
 - **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
 - **Code letter and hazard designation of product:**
F+ Extremely flammable
 - **Risk phrases:**
12 Extremely flammable.
66 Repeated exposure may cause skin dryness or cracking.
 - **Safety phrases:**
2 Keep out of the reach of children.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.06.2013

Version number 33

Revision: 26.06.2013

Trade name: PROTECTON® ENGINE CLEANER 400 ML

(Contd. of page 1)

- 16 Keep away from sources of ignition - No smoking.
 23 Do not breathe spray.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
 46 If swallowed, seek medical advice immediately and show this container or label.
 51 Use only in well-ventilated areas.

· **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

· **Classification in accordance with Directive 75/324/EEC: Extremely flammable**

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.









· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **3.2 Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 64742-48-9 EC number: 918-481-9 Reg.nr.: 01-2119457273-39-xxxx	Naphtha (petroleum), hydrotreated heavy (< 0,1 % benzol CAS nr. 71-43-2)  Xn R65 R66  Asp. Tox. 1, H304	50-75%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane  F+ R12  Flam. Gas 1, H220 Press. Gas, H280	12.5-20%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane  F+ R12  Flam. Gas 1, H220 Press. Gas, H280	5-10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane  F+ R12  Flam. Gas 1, H220 Press. Gas, H280	5-10%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	≥ 30%
------------------------	-------

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.06.2013

Version number 33

Revision: 26.06.2013

Trade name: PROTECTON® ENGINE CLEANER 400 ML

(Contd. of page 2)

- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Keep away from ignition sources.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **7.1 Precautions for safe handling**
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.06.2013

Version number 33

Revision: 26.06.2013

Trade name: **PROTECTON® ENGINE CLEANER 400 ML**

(Contd. of page 3)

· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****106-97-8 butane**

WEL ()	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
--------	---

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:** Not required.· **Protection of hands:** Not required.· **Material of gloves:** Not required.· **Penetration time of glove material:** Not required.· **Eye protection:** Not required.* **9 Physical and chemical properties**· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:** Aerosol**Colour:** According to product specification· **Odour:** Characteristic· **Odour threshold:** Not determined.· **pH-value:** Not determined.· **Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** Not applicable, as aerosol.· **Flash point:** < 0 °C (< 32 °F)
Not applicable, as aerosol.· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:** 240 °C (464 °F)· **Decomposition temperature:** Not determined.· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.· **Explosion limits:****Lower:** 0.6 Vol %**Upper:** 10.9 Vol %· **Vapour pressure at 20 °C (68 °F):** 3500 hPa (2625 mm Hg)· **Density at 20 °C (68 °F):** 0.697 g/cm³ (5.816 lbs/gal)· **Relative density:** Not determined.· **Vapour density:** Not determined.· **Evaporation rate:** Not applicable.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.06.2013

Version number 33

Revision: 26.06.2013

Trade name: **PROTECTON® ENGINE CLEANER 400 ML**

(Contd. of page 4)

- | | |
|---|--|
| · Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Organic solvents: | 100.0 % |
| · 9.2 Other information | No further relevant information available. |

10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

64742-48-9 Naphtha (petroleum), hydrotreated heavy (< 0,1 % benzol CAS nr. 71-43-2)

Oral	LD50	>15000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50 / 4 h	>2.8 mg/m ³ (rat)

106-97-8 butane

Inhalative	LC50 / 4 h	658000 mg/m ³ (rat)
------------	------------	--------------------------------

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

64742-48-9 Naphtha (petroleum), hydrotreated heavy (< 0,1 % benzol CAS nr. 71-43-2)

LC50 / 96 h	>100 mg/l (crustacean (amphipod))
	>100 mg/l (fish)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.06.2013

Version number 33

Revision: 26.06.2013

Trade name: **PROTECTON® ENGINE CLEANER 400 ML**

(Contd. of page 5)

- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

20 01 13* solvents

15 01 04 metallic packaging

- **Uncleaned packaging:**
- **Recommendation:** Non contaminated packagings may be recycled.

14 Transport information

- **14.1 UN-Number**
· **ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
· **ADR** 1950 AEROSOLS
· **IMDG** AEROSOLS
· **IATA** AEROSOLS, flammable

- **14.3 Transport hazard class(es)**

- **ADR**



- **Class** 2 5F Gases.
- **Label** 2.1

- **IMDG, IATA**



- **Class** 2.1
- **Label** 2.1

- **14.4 Packing group**

- **ADR, IMDG, IATA** Void

- **14.5 Environmental hazards:**

- **Marine pollutant:** No

- **14.6 Special precautions for user**

- **Warning:** Gases.
- **Danger code (Kemler):** -
- **EMS Number:** F-D,S-U

- **14.7 Transport in bulk according to Annex II of**

MARPOL 73/78 and the IBC Code Not applicable.

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.06.2013

Version number 33

Revision: 26.06.2013

Trade name: PROTECTON® ENGINE CLEANER 400 ML

(Contd. of page 6)

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)**

1L

· **Transport category**

2

· **Tunnel restriction code**

D

15 Regulatory information

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

R12 Extremely flammable.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

· *** Data compared to the previous version altered.**

GB