



SAFETY DATA SHEET

STP® Tuff Stuff Multi-Purpose Foam Cleaner

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® Tuff Stuff Multi-Purpose Foam Cleaner

Product number 81500

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

Identified uses Automotive foam 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 Aerosol 1 - H222, H229

Health hazards Not Classified

Environmental hazards Not Classified

Physicochemical Containers can burst violently or explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

2.2. Label elements

STP® Tuff Stuff Multi-Purpose Foam Cleaner

Pictogram



Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Detergent labelling

5 - < 15% aliphatic hydrocarbons, < 5% non-ionic surfactants, < 5% perfumes, Contains CITRAL, D-LIMONENE

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, C3-4-rich, petroleum distillate		5 - <10%
CAS number: 68512-91-4	EC number: 270-990-9	
Classification Flam. Gas 1 - H220 Press. Gas, Liquefied - H280		
2-Butoxyethanol		2.5 - <5%
CAS number: 111-76-2	EC number: 203-905-0	
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		
Sodium nitrite		0.25 - <0.5%
CAS number: 7632-00-0	EC number: 231-555-9	
M factor (Acute) = 1		
Classification Ox. Sol. 3 - H272 Acute Tox. 3 - H301 Aquatic Acute 1 - H400		

STP® Tuff Stuff Multi-Purpose Foam Cleaner

Morpholine	0.25 - <0.5%
CAS number: 110-91-8	EC number: 203-815-1
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms are severe or persist after washing.

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.
Inhalation	Spray/mists may cause respiratory tract irritation.
Ingestion	Due to the physical nature of this product, exposure by this route is unlikely.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	May be slightly irritating to eyes. May cause discomfort.

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

Notes for the doctor	Treat symptomatically. Keep affected person under observation.
-----------------------------	--

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

STP® Tuff Stuff Multi-Purpose Foam Cleaner

Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Bursting aerosol containers may be propelled from a fire at high speed. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Vapours may form explosive mixtures with air.
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	Use water to keep fire exposed containers cool and disperse vapours.
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

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. Evacuate area. No smoking, sparks, flames or other sources of ignition near spillage. Risk of explosion.
-----------------------------	--

For non-emergency personnel No action shall be taken without appropriate training or involving any personal risk.

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 protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Eliminate all ignition sources if safe to do so. Do not touch or walk into spilled material. Ventilate closed spaces before entering them. Use only non-sparking tools. 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. Keep away from heat, sparks and open flame. Provide adequate ventilation. Ground/bond container and receiving equipment. Keep away from heat, sparks and open flame.
Advice on general occupational hygiene	Avoid contact with eyes and prolonged skin contact. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product.

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. Take precautionary measures against static discharges.
Storage class	Flammable compressed gas storage.

7.3. Specific end use(s)

STP® Tuff Stuff Multi-Purpose Foam Cleaner

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

Hydrocarbons, C3-4-rich, petroleum distillate

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m³

Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m³

2-Butoxyethanol

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m³

Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m³

Sk

Morpholine

Long-term exposure limit (8-hour TWA): WEL 10 ppm 36 mg/m³

Short-term exposure limit (15-minute): WEL 20 ppm 72 mg/m³

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

linalool (CAS: 78-70-6)

DNEL

Workers - Inhalation; Long term systemic effects: 2.8 mg/m³
 Workers - Inhalation; Short term systemic effects: 16.5 mg/m³
 Workers - Dermal; Long term systemic effects: 2.5 mg/kg/day
 Workers - Dermal; Short term systemic effects: 5 mg/kg/day
 Workers - Dermal; Long term local effects: 3 mg/cm²
 Workers - Dermal; Short term local effects: 3 mg/cm²
 General population - Inhalation; Long term systemic effects: 0.7 mg/m³
 General population - Inhalation; Short term systemic effects: 4.1 mg/m³
 General population - Dermal; Long term systemic effects: 1.25 mg/kg/day
 General population - Dermal; Short term systemic effects: 23.5 mg/kg/day
 General population - Dermal; Long term local effects: 1.5 mg/cm²
 General population - Dermal; Short term local effects: 1.5 mg/cm²
 General population - Oral; Long term systemic effects: 0.2 mg/kg/day
 General population - Oral; Short term systemic effects: 1.2 mg/kg/day

PNEC

- Fresh water; 0.2 mg/l
 - Marine water; 0.02 mg/l
 - STP; 10 mg/l
 - Sediment (Freshwater); 2.22 mg/kg
 - Sediment (Marinewater); 0.222 mg/kg
 - Soil; 0.327 mg/kg
 - Oral; 7.8 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. All handling should only take place in well-ventilated areas. Avoid inhalation of vapours and spray/mists. Use explosion-proof electrical, ventilating and lighting equipment.

STP® Tuff Stuff Multi-Purpose Foam Cleaner

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: 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. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
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.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.
Environmental exposure controls	Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Opaque liquid.
Colour	White.
Odour	Citrus.
Odour threshold	Not determined.
pH	pH (concentrated solution): 10.2 - 10.9 Liquid.
Melting point	Not relevant.
Initial boiling point and range	Not relevant.
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	Not determined.
Bulk density	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not relevant.
Decomposition Temperature	Not relevant.
Viscosity	Not determined.

STP® Tuff Stuff Multi-Purpose Foam Cleaner

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	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. Stable under the prescribed storage conditions.
------------------	---

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Will not polymerise.
---	----------------------

10.4. Conditions to avoid

Conditions to avoid	Avoid exposing aerosol containers to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition. Avoid the accumulation of vapours in low or confined areas. Pressurised container: may burst if heated
----------------------------	--

10.5. Incompatible materials

Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
---------------------------	--

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Decomposition at ambient temperatures may generate the following substances: Carbon dioxide (CO ₂). Carbon monoxide (CO). Acrid smoke or fumes.
---	---

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
-------------------------------------	--

ATE oral (mg/kg)	23,128.89
-------------------------	-----------

Acute toxicity - dermal

Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
---------------------------------------	--

ATE dermal (mg/kg)	30,753.46
---------------------------	-----------

Acute toxicity - inhalation

Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
---	--

ATE inhalation (vapours mg/l)	95.77
--------------------------------------	-------

Skin corrosion/irritation

Skin corrosion/irritation	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.
--------------------------------------	--

STP® Tuff Stuff Multi-Purpose Foam Cleaner

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 Not anticipated to present an aspiration hazard, based on chemical structure.

Toxicological information on ingredients.

Hydrocarbons, C3-4-rich, petroleum distillate

Germ cell mutagenicity

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

Reproductive toxicity

Reproductive toxicity - fertility One-generation study - NOAEC 10000 ppm, Inhalation, Rat P REACH dossier information.

Reproductive toxicity - development Developmental toxicity: - NOAEC: 10426 ppm, Inhalation, Rat REACH dossier information.

2-Butoxyethanol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,746.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 1,746.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,200.0

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information.

STP® Tuff Stuff Multi-Purpose Foam Cleaner

ATE dermal (mg/kg) 1,200.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) cATpE: Converted Acute Toxicity Point Estimate.

ATE inhalation (vapours mg/l) 3.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2).
Oedema score: No oedema (0). REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, 24 hours, Rabbit REACH dossier information. Irritating.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - 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 NOAEC 125 ppm, Inhalation, Mouse REACH dossier information. Limited evidence of a carcinogenic effect.

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEL 720 mg/kg/day, Oral, Mouse P, F1 REACH dossier information.

Reproductive toxicity - development Maternal toxicity: - NOAEL: 50 ppm, Inhalation, Rabbit REACH dossier information.

Sodium nitrite

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 180.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 180.0

Morpholine

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,900.0

Species Rat

STP® Tuff Stuff Multi-Purpose Foam Cleaner

Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	1,900.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	500.0
Species	Rabbit
Notes (dermal LD₅₀)	REACH dossier information.
ATE dermal (mg/kg)	500.0
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC₅₀ vapours mg/l)	8.0
Species	Rat
Notes (inhalation LC₅₀)	REACH dossier information.
ATE inhalation (vapours mg/l)	8.0
<u>Skin corrosion/irritation</u>	
Animal data	Dose: 0.5 ml, 3 minute, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Corrosive.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Corrosive to skin. Corrosivity to eyes is assumed. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	DNA damage and/or repair: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEC > 543 mg/m ³ , Inhalation, Rat REACH dossier information.
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<u>Reproductive toxicity</u>	
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 750 mg/kg/day, Oral, Rat REACH dossier information. Read-across data.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity	Not considered toxic to fish. However, large or frequent spills may have hazardous effects on the environment.
-----------------	--

Ecological information on ingredients.

Hydrocarbons, C3-4-rich, petroleum distillate

STP® Tuff Stuff Multi-Purpose Foam Cleaner

Acute toxicity - fish LC₅₀, 96 hours: 49.47 mg/l, Algae
REACH dossier information.
QSAR

2-Butoxyethanol

Acute toxicity - fish LC₅₀, 96 hours: 1474 mg/l, Onchorhynchus mykiss (Rainbow trout)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1550 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 72 hours: 911 mg/l, Pseudokirchneriella subcapitata
REACH dossier information.

Chronic toxicity - fish early life stage NOEC, 21 day: > 100 mg/l, Brachydanio rerio (Zebra Fish)
REACH dossier information.

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 100 mg/l, Daphnia magna
REACH dossier information.

Sodium nitrite

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 0.54 - 26.3 mg/l, Onchorhynchus mykiss (Rainbow trout)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₀, 48 hours: 4.6 mg/l, Daphnia magna
EC₅₀, 48 hours: 15.4 mg/l, Daphnia magna
EC₁₀₀, 48 hours: > 100 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 72 hours: > 100 mg/l, Desmodesmus subspicatus
NOEC, 72 hours: 100 mg/l, Desmodesmus subspicatus
REACH dossier information.

Acute toxicity - microorganisms EC₅₀, 24 hours: 285 mg/l, Spirostomum ambiguum
EC₅₀, 48 hours: 281 mg/l, Spirostomum ambiguum
REACH dossier information.

Chronic toxicity - fish early life stage NOEC, 29 days: 1.05 mg/l, Cyprinus carpio (Common carp)
REACH dossier information.

Chronic toxicity - aquatic invertebrates NOEC, 80 days: 9.86 mg/l, Penaeus monodon (Asian tiger shrimp)
EC₅₀, 80 days: 114.9 mg/l, Penaeus monodon (Asian tiger shrimp)
LC₅₀, 80 days: > 95.6 mg/l, Penaeus monodon (Asian tiger shrimp)
REACH dossier information.

Morpholine

Acute toxicity - fish LC₅₀, 96 hours: 179 mg/l, Valamugil engeli
REACH dossier information.

STP® Tuff Stuff Multi-Purpose Foam Cleaner

Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 45 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 28 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
Acute toxicity - microorganisms	EC ₂₀ , 30 minutes: > 1000 mg/l, Activated sludge REACH dossier information.
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 5 mg/l, Daphnia magna REACH dossier information.

12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

Ecological information on ingredients.

Hydrocarbons, C3-4-rich, petroleum distillate

Phototransformation	Water - DT ₅₀ : 1906 days REACH dossier information. Calculation method.
Biodegradation	Water - Degradation (100%): 385.5 hours REACH dossier information. The substance is readily biodegradable.

2-Butoxyethanol

Biodegradation	Water - Degradation (18.3%): 3 days Water - Degradation (40.5%): 6 days Water - Degradation (43%): 8 days Water - Degradation (58.7%): 11 days Water - Degradation (90.4%): 28 days REACH dossier information. The substance is readily biodegradable.
-----------------------	--

Morpholine

Phototransformation	Water - DT ₅₀ : 2.79 hours Calculation method. REACH dossier information.
Biodegradation	Water - Degradation (2%): 1 day Water - Degradation (5.5%): 15 days Water - Degradation (34.1%): 18 days Water - Degradation (93%): 25 days REACH dossier information. The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not determined.

STP® Tuff Stuff Multi-Purpose Foam Cleaner

Ecological information on ingredients.

Hydrocarbons, C3-4-rich, petroleum distillate

Partition coefficient log Pow: 2.3058 REACH dossier information. QSAR

2-Butoxyethanol

Partition coefficient log Pow: 0.81 REACH dossier information.

Morpholine

Bioaccumulative potential BCF: ≤ 0.65 , Cyprinus carpio (Common carp) REACH dossier information.

Partition coefficient log Pow: -2.55 REACH dossier information.

12.4. Mobility in soil

Mobility The product has poor water-solubility.

Ecological information on ingredients.

2-Butoxyethanol

Surface tension 65.03 mN/m @ 20°C REACH dossier information.

Morpholine

Adsorption/desorption coefficient log Koc -0.6196 Calculation method. REACH dossier information.

Henry's law constant 0.0116 Pa m³/mol @ 25°C REACH dossier information. Calculation method.

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 Do not puncture or incinerate, even when empty.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

STP® Tuff Stuff Multi-Purpose Foam Cleaner

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG class 2.1

ICAO class/division 2.1

ADN class 2.1

Transport labels



14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

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.
Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).
Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).

STP® Tuff Stuff Multi-Purpose Foam Cleaner

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 IMDG: International Maritime Dangerous Goods.
 IATA: International Air Transport Association.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 ATE: Acute Toxicity Estimate.
 DNEL: Derived No Effect Level.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 vPvB: Very Persistent and Very Bioaccumulative.
 BCF: Bioconcentration Factor.

Classification procedures according to Regulation (EC) 1272/2008

Aerosol 1 - H222, H229: Expert judgement.

Revision comments

Document revised.

Revision date

20/06/2017

Revision

11

Supersedes date

01/12/2015

SDS number

415

Hazard statements in full

H220 Extremely flammable gas.
 H222 Extremely flammable aerosol.
 H226 Flammable liquid and vapour.
 H229 Pressurised container: may burst if heated
 H272 May intensify fire; oxidiser.
 H280 Contains gas under pressure; may explode if heated.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 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.
 H331 Toxic if inhaled.
 H400 Very toxic to aquatic life.

STP® Tuff Stuff Multi-Purpose Foam Cleaner

The information supplied here is accurate to the best knowledge and belief of Armored Auto UK Ltd, it is however, not intended as a warranty or representation, and should not be construed as such, for which Armored Auto UK Ltd assumes any legal responsibility. Any information or advice obtained from Armored Auto UK Ltd other than by means of this publication, and whether relating to Armored Auto UK Ltd's products or other materials is also given in good faith. It remains at all times the responsibility of the customer, and user, to ensure that the materials are suitable for the particular purpose intended. Materials not manufactured, or supplied, by Armored Auto UK Ltd when used instead of, or in conjunction with materials supplied by Armored Auto UK Ltd, it is the customer's responsibility to ensure that all technical, and other information related to such materials is obtained from the manufacturer or supplier. Armored Auto UK Ltd accepts no liability for the data contained within this document, as the information herein may be applied under conditions beyond our control, and in situations with which we may be unfamiliar. The information contained within this document is furnished upon condition that the customer and user of this product makes his own determination of the suitability of the product for his particular purpose.