

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 1 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

**Product identifier** : **ENGINE BRITE® ORIGINAL HEAVY DUTY ENGINE  
DEGREASER - AEROSOL**

**Product Code(s)** : EB1; EB1/6; EB1ES

**Relevant identified uses of the substance or mixture and uses advised against**

- : Degreaser - Aerosol spray to remove grease and grime from auto, power mower, marine and tractor engines, metals, concrete and tires, and industrial equipment where water is permitted.  
Rinse overspray from exterior body surfaces immediately to avoid dewaxing or streaking paint. Avoid use of Engine Brite® on rubber tile, asphalt, black top or other surfaces affected by petroleum solvents..  
Use pattern: professional use; Consumers .

**Details of the supplier of the safety data sheet:**

**EcoMundo (as "Only Representative" of RSC)**

215, rue Jean-Jacques Rousseau  
92130 Issy-les-Moulineaux  
France

Email: [Tox@ecomundo.eu](mailto:Tox@ecomundo.eu)

**Supplier's Telephone No.:** +33 1 83 64 20 54

*Name, Address, and telephone number of the U.S. Manufacturer:*

Radiator Specialty Company  
600 Radiator Road  
Indian Trail, North Carolina, U.S.A.  
28079

Website: <http://www.radiatorspecialty.com>

*Manufacturer's Telephone Number:* 001-704-684-1181

**Emergency Telephone Number**

: 001-303-623-5716 (Rocky Mountain Poison Control Center – U.S.)

### SECTION 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

Aerosol of clear amber liquid. Petroleum odour.

**Most important hazards:**

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Hazardous classification:

- Flammable aerosol - Category 1; H222
- Aspiration toxicity - Category 1; H304
- Carcinogenicity - Category 2; H351
- STOT - single exposure - Category 3; H335 - H336
- Chronic aquatic hazard - Category 3; H412
- EUH066 - Repeated exposure may cause skin dryness or cracking.

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ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 2 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

The preparation is classified as dangerous in accordance with Directive 1999/45/EC. Classification:

- F+ - Extremely flammable
- R12 - Extremely flammable.
- Xn - Harmful
- Carc. Cat.3;R40 - Limited evidence of a carcinogenic effect.
- R65 - Also harmful: may cause lung damage if swallowed.
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R66 - Repeated exposure may cause skin dryness or cracking.
- R67 - Vapours may cause drowsiness and dizziness.

### Label elements

*Hazardous components which must be listed on the label:* Fuels, diesel, no. 2; Solvent naphtha (petroleum), heavy aromatic; Naphthalene.

*Signal word:*  
Danger!

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.

### *Hazard statements:*

- H222 - Extremely flammable aerosol
- H304 - May be fatal if swallowed and enters airways.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H351 - Suspected of causing cancer.
- H412 - Harmful to aquatic life with long lasting effects.

### *Supplemental Hazard Statements:*

- EUH066 - Repeated exposure may cause skin dryness or cracking.

### *Precautionary statements:*

- P102 - Keep out of reach of children.
- P210 - Keep away from sources of ignition - No smoking.
- P261 - Avoid breathing vapours or spray.
- P281 - Use personal protective equipment as required.
- P308 + P313 - IF exposed or concerned: Get medical advice/attention.
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
- P331 - Do NOT induce vomiting.
- P405 - Store locked up.
- P501 - Dispose of contents/container in accordance with local regulation.

### *Hazard pictograms:*



**ENGINE BRITE® ORIGINAL HEAVY DUTY  
ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 3 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May be mildly irritating to eyes and skin. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). Prolonged or repeated overexposure may cause liver, kidney and blood system effects.

Environmental precautions:

Harmful to aquatic life with long lasting effects. Avoid release to the environment.

PBT assessment:

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

Not applicable

#### Mixtures

Chemical nature: Mixture - Petroleum distillates; Hydrocarbons; Surfactant; Propellant.

The following substances shall be indicated according to legislation:

Chemical name	CAS #	EC No.	Concentration (%)	EU Classification	CLP Classification
Fuels, diesel, no. 2	68476-34-6	270-676-1	80.0 - 90.0	*R10 Xn - Harmful Carc.Cat.3; R40 *R65 *R66 *R67 *R52-53	Carc. 2; H351 *Flam. Liq. 3; H226 *Asp. Tox. 1; H304 *STOT SE 3; H336 *Aquatic Chronic 3; H412 *EUH066
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	265-198-5	< 5.0	Xn - Harmful; R65 *N - Dangerous for the environment; R51/53 *R66 *R67	Asp. Tox. 1; H304 *STOT SE 3; H335 *STOT SE 3; H336 *Aquatic Chronic 2; H411 *EUH066
Polyoxyethylene Sorbitol Hexaoleate	57171-56-9	Polymer	1.0 - 5.0	None assigned.	None assigned.
Carbon dioxide	124-38-9	204-696-9	1.0 - 5.0	None assigned. Substances for which there are Community workplace exposure limits.	Press. Gas; H280
Naphthalene	91-20-3	202-049-5	< 2.0	Xn - Harmful R22 Carc.Cat.3; R40 N - Dangerous for the environment; R50/53	Carc. 2; H351 **Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
2-butoxyethanol	111-76-2	203-905-0	< 1.0	Xn - Harmful; R20/21/22 Xi - Irritant; R36/38	*Acute Tox. 3; H311 *Acute Tox. 3; H331 **Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315
1,2,4-Trimethylbenzene	95-63-6	202-436-9	< 1.0	R10 Xn - Harmful; R20 Xi - Irritant; R36/37/38 N - Dangerous for the environment; R51/53	Flam. Liq. 3 H226 **Acute Tox. 4 ; H332 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Skin Irrit. 2 ; H315 Aquatic Chronic 2 ; H411

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 4 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Xylene	1330-20-7	215-535-7	< 1.0	R10 Xn - Harmful; R20/21 Xi - Irritant; R38 *N - Dangerous for the environment; R51/53 *Xn - Harmful; R65	Flam. Liq. 3; H226 **Acute Tox. 4; H312 **Acute Tox. 4; H332 Skin Irrit. 2; H315 *Asp. Tox. 1; H304 *Aquatic Chronic 2; H411
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**Note:**

\*The classifications listed for the following chemicals are in addition to those appearing in Annex VI of Regulation (EC) No. 1272/2008: Fuels, diesel, no. 2; Solvent naphtha (petroleum), heavy aromatic; Xylene; 2-butoxyethanol.

\*\* The above CLP Acute toxicity Classifications for the following chemicals are 'Minimum Classifications': 1,2,4-Trimethylbenzene; Naphthalene; 2-butoxyethanol; Xylene.

For the full text of the H and R phrases mentioned in this Section, see Section 2 or 16.

### SECTION 4. FIRST-AID MEASURES

**Description of first aid measures**

- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
- Inhalation* : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. When symptoms persist or in all cases of doubt seek medical advice.
- Eye contact* : Rinse immediately with plenty of water and seek medical advice.

**Most important symptoms and effects, both acute and delayed**

- : May be fatal if swallowed and enters airways.
- Suspected of causing cancer.
- May cause respiratory irritation.
- May cause drowsiness and dizziness.
- Repeated exposure may cause skin dryness or cracking.
- May cause mild eye irritation.
- Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).
- Prolonged or repeated overexposure may cause liver, kidney and blood system effects.

**Indication of any immediate medical attention and special treatment needed**

- : Treat symptomatically. Immediate medical attention is required. Aspiration hazard.

### SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

- Suitable extinguishing media* : Carbon dioxide (CO<sub>2</sub>); Dry chemical; Alcohol-resistant foam; Water spray .
- Unsuitable extinguishing media* : Do not use a solid water stream as it may scatter and spread fire.

**Special hazards arising from the substance or mixture**

- : Extremely flammable aerosol. Pressurized container: may burst if heated. Do not pierce or burn, even after use. Do not spray on a naked flame or any other incandescent material. Product may float, and be re-ignited at the water's surface. Vapours are heavier than air and may spread along floors. The pressure in sealed containers can increase under the influence of heat. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Hydrocarbons; Sulphur oxides; Nitrogen oxides (NO<sub>x</sub>); Phosphorus compounds; Polycyclic aromatic hydrocarbons; Aldehydes.

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ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 5 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### Advice for firefighters

#### *Protective equipment for fire-fighters*

- : Wear self-contained breathing apparatus and protective suit. Fight fire with normal precautions from a reasonable distance.

#### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control. Shield personnel to protect from venting or rupturing containers.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- : Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up.

### Environmental precautions

- : Do not allow material to contaminate ground water system.

### Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. Soak up with inert absorbent material. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

### Reference to other sections

- : Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.  
Use only in well-ventilated areas. Wear suitable protective equipment. Avoid breathing vapours or mists. Avoid contact with skin, eyes and clothing. Keep away from sources of ignition - No smoking. 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. Avoid contact with strong oxidizing agents. Always replace cap after use. Wash thoroughly after handling. Keep out of the reach of children.

### Conditions for safe storage, including any incompatibilities

- : Store in cool/well-ventilated place. Store locked up. Inspect periodically for damage or leaks. Protect from sunlight. Keep container tightly closed when not in use. Keep out of the reach of children. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

### Specific end use(s)

- : Degreaser.

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
 ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 6 of 18

**SAFETY DATA SHEET**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control Parameters**

<b><u>Exposure Limits:</u></b>			
<b><u>Chemical Name</u></b>	<b><u>Exposure Limits</u></b>	<b><u>Type</u></b>	<b><u>Notes</u></b>
<b>1,2,4-Trimethylbenzene</b>	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	European Union (OEL)	None.
	100.0 mg/m <sup>3</sup> (TWA)	Bulgaria (OEL)	None.
	25 ppm (125 mg/m <sup>3</sup> ) (TWA)	Croatia (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Cyprus (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Estonia (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Finland (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA) 50 ppm (250 mg/m <sup>3</sup> ) (STEL)	France (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Germany (OEL)	None.
	25 ppm (125 mg/m <sup>3</sup> ) (TWA)	Greece (OEL)	None.
	100 mg/m <sup>3</sup> (TWA)	Hungary (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Ireland (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Italy (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Latvia (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Malta (OEL)	None.
	100 mg/m <sup>3</sup> (TWA) 170 mg/m <sup>3</sup> (STEL)	Poland (OEL)	Skin notation
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Rumania (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA) 200 mg/m <sup>3</sup> (Ceiling Limit Value)	Slovak Republic (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Slovenia (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Spain (OEL)	None.
<b>2-butoxyethanol</b>	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 50 ppm (246 mg/m <sup>3</sup> ) (STEL)	European Union (OEL)	Possibility of significant uptake through the skin
	98.0 mg/m <sup>3</sup> (TWA) 246.0 mg/m <sup>3</sup> (STEL)	Bulgaria (OEL)	None.
	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 50 ppm (246 mg/m <sup>3</sup> ) (STEL)	Croatia (OEL)	Skin notation
	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 50 ppm (246 mg/m <sup>3</sup> ) (STEL)	Cyprus (OEL)	Skin-potential for cutaneous absorption
	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 50 ppm (246 mg/m <sup>3</sup> ) (STEL)	Estonia (OEL)	Skin notation
	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 50 ppm (250 mg/m <sup>3</sup> ) (STEL)	Finland (OEL)	Potential for cutaneous absorption

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 7 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

	10 ppm (49 mg/m <sup>3</sup> ) (indicative limit) (TWA) 50 ppm (246 mg/m <sup>3</sup> ) (indicative limit) (STEL)	France (OEL)	Risk of cutaneous absorption
	20 ppm (98 mg/m <sup>3</sup> ) (exposure factor 4) (TWA)	Germany (OEL)	Skin notation
	25 ppm (120 mg/m <sup>3</sup> ) (TWA)	Greece (OEL)	skin - potential for cutaneous absorption
	98 mg/m <sup>3</sup> (TWA) 246 mg/m <sup>3</sup> (STEL)	Hungary (OEL)	Potential for cutaneous absorption
	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 50 ppm (246 mg/m <sup>3</sup> ) (STEL)	Ireland (OEL)	Potential for cutaneous absorption
	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 50 ppm (246 mg/m <sup>3</sup> ) (STEL)	Italy (OEL)	Skin - Potential for cutaneous absorption
	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 50 ppm (246 mg/m <sup>3</sup> ) (STEL)	Latvia (OEL)	skin - potential for cutaneous exposure
	10 ppm (50 mg/m <sup>3</sup> ) (TWA) 20 ppm (100 mg/m <sup>3</sup> ) (STEL)	Lithuania (OEL)	Skin notation
	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 50 ppm (246 mg/m <sup>3</sup> ) (STEL)	Malta (OEL)	Possibility of significant uptake through the skin
	98 mg/m <sup>3</sup> (TWA) 200 mg/m <sup>3</sup> (STEL)	Poland (OEL)	Skin notation
	30 ppm (150 mg/m <sup>3</sup> ) (TWA) 250 mg/m <sup>3</sup> (STEL)	Rumania (OEL)	None.
	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 246 mg/m <sup>3</sup> (Ceiling Limit Value)	Slovak Republic (OEL)	Potential for cutaneous absorption
	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 50 ppm (245 mg/m <sup>3</sup> ) (STEL)	Slovenia (OEL)	Potential for cutaneous absorption
	20 ppm (98 mg/m <sup>3</sup> ) (TWA) 50 ppm (245 mg/m <sup>3</sup> ) (STEL)	Spain (OEL)	Skin - Potential for cutaneous absorption
	25 ppm (123 mg/m <sup>3</sup> ) (TWA) 50 ppm (246 mg/m <sup>3</sup> ) (STEL)	The United Kingdom (WELs)	Potential for cutaneous absorption
<b>Carbon dioxide</b>	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA)	European Union (OEL)	None.
	9000 mg/m <sup>3</sup> (TWA)	Bulgaria (OEL)	None.
	5000 ppm (TWA) 9000 mg/m <sup>3</sup> (STEL)	Croatia (OEL)	None.
	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA)	Cyprus (OEL)	None.
	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA)	Estonia (OEL)	None.
	5000 ppm (9100 mg/m <sup>3</sup> ) (TWA)	Finland (OEL)	None.
	5000 ppm (9000 mg/m <sup>3</sup> ) (indicative limit) (TWA)	France (OEL)	None.
	5000 ppm (9100 mg/m <sup>3</sup> ) (exposure factor 2) (TWA)	Germany (OEL)	None.

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
 ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 8 of 18

**SAFETY DATA SHEET**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA) 5000 ppm (54000 mg/m <sup>3</sup> ) (STEL)	Greece (OEL)	None.
	9000 mg/m <sup>3</sup> (TWA)	Hungary (OEL)	None.
	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA)	Ireland (OEL)	None.
	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA)	Italy (OEL)	None.
	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA)	Latvia (OEL)	None.
	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA)	Lithuania (OEL)	None.
	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA)	Malta (OEL)	None.
	9000 mg/m <sup>3</sup> (except underground coal mining) (TWA) 27000 mg/m <sup>3</sup> (except underground coal mining) (STEL)	Poland (OEL)	None.
	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA) 26 ppm (30 mg/m <sup>3</sup> ) (STEL)	Rumania (OEL)	None.
	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA)	Slovak Republic (OEL)	None.
	5000 ppm (9000 mg/m <sup>3</sup> ) (TWA)	Slovenia (OEL)	None.
	5000 ppm (9150 mg/m <sup>3</sup> ) (indicative limit value) (TWA)	Spain (OEL)	None.
	5000 ppm (9150 mg/m <sup>3</sup> ) (TWA) 15000 ppm (27400 mg/m <sup>3</sup> ) (STEL)	The United Kingdom (WELs)	None.
<b>Fuels, diesel, no. 2</b>	100 mg/m <sup>3</sup> (aerosol and vapour) (TWA)	Belgium (OEL)	Skin
	100 mg/m <sup>3</sup> (aerosol and vapour) (TWA)	Portugal (OEL)	Skin - Potential for cutaneous absorption
<b>Naphthalene</b>	10 ppm (50 mg/m <sup>3</sup> ) (TWA)	European Union (OEL)	None.
	50.0 mg/m <sup>3</sup> (TWA) 75.0 mg/m <sup>3</sup> (STEL)	Bulgaria (OEL)	None.
	10 ppm (50 mg/m <sup>3</sup> ) (TWA)	Croatia (OEL)	None.
	10 ppm (50 mg/m <sup>3</sup> ) (TWA)	Cyprus (OEL)	None.
	10 ppm (50 mg/m <sup>3</sup> ) (TWA)	Estonia (OEL)	None.
	1 ppm (5 mg/m <sup>3</sup> ) (TWA) 2 ppm (10 mg/m <sup>3</sup> ) (STEL)	Finland (OEL)	None.
	10 ppm (50 mg/m <sup>3</sup> ) (TWA)	France (OEL)	None.
	0.1 ppm (0.5 mg/m <sup>3</sup> ) (TWA)	Germany (OEL)	Skin notation
	10 ppm (50 mg/m <sup>3</sup> ) (TWA)	Greece (OEL)	None.
	50 mg/m <sup>3</sup> (TWA)	Hungary (OEL)	Potential for cutaneous absorption
	10 ppm (50 mg/m <sup>3</sup> ) (TWA) 15 ppm (75 mg/m <sup>3</sup> ) (STEL)	Ireland (OEL)	None.
	10 ppm (50 mg/m <sup>3</sup> ) (TWA)	Latvia (OEL)	None.
	10 ppm (10 mg/m <sup>3</sup> ) (TWA)	Lithuania (OEL)	None.
	10 ppm (50 mg/m <sup>3</sup> ) (TWA)	Malta (OEL)	None.
	20 mg/m <sup>3</sup> (TWA) 50 mg/m <sup>3</sup> (STEL)	Poland (OEL)	Skin notation



**ENGINE BRITE® ORIGINAL HEAVY DUTY  
ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 9 of 18

**SAFETY DATA SHEET**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

	9.5 ppm (50 mg/m <sup>3</sup> ) (TWA)	Rumania (OEL)	None.
	10 ppm (50 mg/m <sup>3</sup> ) (TWA) 80 mg/m <sup>3</sup> (Ceiling Limit Value)	Slovak Republic (OEL)	Potential for cutaneous absorption
	10 ppm (50 mg/m <sup>3</sup> ) (TWA)	Slovenia (OEL)	None.
	10 ppm (53 mg/m <sup>3</sup> ) (TWA) 15 ppm (80 mg/m <sup>3</sup> ) (STEL)	Spain (OEL)	Skin - Potential for cutaneous absorption
<b>Polyoxyethylene Sorbitol Hexaoleate</b>	None known.	European Union (OEL)	None.
<b>Solvent naphtha (petroleum), heavy aromatic</b>	None known.	European Union (OEL)	None.
<b>Xylene</b>	50 ppm (221 mg/m <sup>3</sup> ) (TWA) 100 ppm (442 mg/m <sup>3</sup> ) (STEL)	European Union (OEL)	Possibility of significant uptake through the skin
	221.0 mg/m <sup>3</sup> (TWA) 442.0 mg/m <sup>3</sup> (STEL)	Bulgaria (OEL)	Skin notation
	100 ppm TWA; 440 mg/m <sup>3</sup> TWA; 150 ppm STEL; 655 mg/m <sup>3</sup> STEL	Croatia (OEL)	Skin notation
	50 ppm (221 mg/m <sup>3</sup> ) (TWA) 100 ppm (442 mg/m <sup>3</sup> ) (STEL)	Cyprus (OEL)	Skin-potential for cutaneous absorption
	50 ppm (221 mg/m <sup>3</sup> ) (TWA) 100 ppm (450 mg/m <sup>3</sup> ) (STEL)	Estonia (OEL)	Skin notation
	50 ppm (220 mg/m <sup>3</sup> ) (TWA) 100 ppm (440 mg/m <sup>3</sup> ) (STEL)	Finland (OEL)	Potential for cutaneous absorption
	50 ppm (221 mg/m <sup>3</sup> ) (TWA) 100 ppm (442 mg/m <sup>3</sup> ) (STEL)	France (OEL)	Risk of cutaneous absorption
	100 ppm (440 mg/m <sup>3</sup> ) (exposure factor 2) (TWA)	Germany (OEL)	Skin notation
	100 ppm (435 mg/m <sup>3</sup> ) (TWA) 150 ppm (650 mg/m <sup>3</sup> ) (STEL)	Greece (OEL)	skin - potential for cutaneous absorption
	221 mg/m <sup>3</sup> (TWA) 442 mg/m <sup>3</sup> (STEL)	Hungary (OEL)	Potential for cutaneous absorption
	50 ppm (221 mg/m <sup>3</sup> ) (TWA) 100 ppm (442 mg/m <sup>3</sup> ) (STEL)	Ireland (OEL)	Potential for cutaneous absorption
	50 ppm (221 mg/m <sup>3</sup> ) (TWA) 100 ppm (442 mg/m <sup>3</sup> ) (STEL)	Italy (OEL)	Skin - Potential for cutaneous absorption
	50 ppm (221 mg/m <sup>3</sup> ) (TWA) 100 ppm (442 mg/m <sup>3</sup> ) (STEL)	Latvia (OEL)	skin - potential for cutaneous exposure
	50 ppm (200 mg/m <sup>3</sup> ) (TWA) 100 ppm (450 mg/m <sup>3</sup> ) (STEL)	Lithuania (OEL)	Skin notation

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 10 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

50 ppm (221 mg/m <sup>3</sup> ) (pure) (TWA) 100 ppm (442 mg/m <sup>3</sup> ) (pure) (STEL)	Malta (OEL)	Possibility of significant uptake through the skin(pure)
100 mg/m <sup>3</sup> (TWA)	Poland (OEL)	Skin notation
50 ppm (221 mg/m <sup>3</sup> ) (TWA) 100 ppm (442 mg/m <sup>3</sup> ) (STEL)	Rumania (OEL)	Skin notation
50 ppm (221 mg/m <sup>3</sup> ) (TWA) 442 mg/m <sup>3</sup> (Ceiling Limit Value)	Slovak Republic (OEL)	Potential for cutaneous absorption
50 ppm (221 mg/m <sup>3</sup> ) (TWA) 100 ppm (442 mg/m <sup>3</sup> ) (STEL)	Slovenia (OEL)	Potential for cutaneous absorption
50 ppm (221 mg/m <sup>3</sup> ) (TWA) 100 ppm (442 mg/m <sup>3</sup> ) (STEL)	Spain (OEL)	Skin - Potential for cutaneous absorption
50 ppm (220 mg/m <sup>3</sup> ) (TWA) 100 ppm (441 mg/m <sup>3</sup> ) (STEL)	The United Kingdom (WELs)	Potential for cutaneous absorption

### Exposure controls

#### Ventilation and engineering measures

- : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

#### Respiratory protection

- : In the case of vapour formation use a respirator with an approved filter. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

#### Skin protection

- : Gloves impervious to the material are recommended. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Wear sufficient clothing to prevent skin contact.

#### Eye / face protection

- : Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side-shields. See also EN 166.

#### Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location.

#### General hygiene considerations

- : Avoid breathing vapours, fumes, or mists. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	: Amber aerosol spray.
<b>Odour</b>	: Petroleum odour.
<b>Odour threshold</b>	: No information available.
<b>pH</b>	: Not applicable.
<b>Flash point</b>	: 73.9°C (concentrate)
<b>Flashpoint (Method)</b>	: closed cup

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 11 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Lower flammable limit (% by vol.)**

: No information available.

**Upper flammable limit (% by vol.)**

: No information available.

**Flammability (solid, gas)**

: Not applicable.

**Auto-ignition temperature**

: No information available.

**Decomposition temperature**

: No information available.

**Oxidizing properties**

: None known.

**Explosive properties**

: May be sensitive to static discharge. Aerosols are sensitive to mechanical impact.

**Initial boiling point and boiling range**

: 151.7°C

**Melting/Freezing point**

: No information available.

**Relative density**

: 0.86

**Solubility in water**

: emulsifiable

**Other solubility(ies)**

: No information available.

**Vapour pressure**

: No information available.

**Vapour density**

: 1.2

**Partition coefficient: n-octanol/water**

: No information available.

**Viscosity**

: 2.6 mm<sup>2</sup>/sec @ 40°C

**Evaporation rate (BuAe = 1)**

: No information available.

**Other Information**

**Volatiles (% by weight)**

: No information available.

**Volatile organic Compounds (VOC's)**

: No information available.

**Other physical/chemical comments**

: Chemical heat of combustion: 39.799 kJ/g

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**

: Not normally reactive.

**Chemical stability**

: Stable under normal conditions.

**Possibility of hazardous reactions**

: Hazardous polymerization does not occur.

**Conditions to avoid**

: Direct sources of heat. Keep away from direct sunlight. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Incompatible materials**

: Strong oxidizing agents; Bases; Alkali metals; Acids.

**Hazardous decomposition products**

: Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Hydrocarbons; Sulphur oxides; Nitrogen oxides (NO<sub>x</sub>); Phosphorus compounds; Polycyclic aromatic hydrocarbons; Aldehydes.

### SECTION 11. TOXICOLOGICAL INFORMATION

**Information on Toxicological effects:**

**Acute toxicity**

: According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.

**Skin corrosion/Irritation**

: According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 12 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

- Serious eye damage/irritation** : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
- Respiratory or skin sensitisation** : According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.  
According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser.
- Germ cell mutagenicity** : According to the classification criteria of the European Union, the product is not considered as being a germ cell mutagen.  
The following petroleum derived chemicals contain < 0.1% Benzene: stoddard solvent.
- Carcinogenicity** : This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.  
Classification:  
Carcinogenicity - Category 2. Suspected of causing cancer. Contains: Fuels, diesel, no. 2; Naphthalene.
- Reproductive toxicity** : According to the classification criteria of the European Union, this product is not considered as being toxic to reproduction.
- STOT-single exposure** : This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.  
Classification:  
Specific target organ toxicity - single exposure - Category 3. May cause drowsiness and dizziness. May cause respiratory irritation.
- STOT-repeated exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.
- Aspiration hazard** : This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.  
This product is dispensed as a coarse spray/stream. If sprayed into the mouth a pool of liquid can be formed in the mouth which can be swallowed. Classification:  
Aspiration toxicity - Category 1; H304 - May be fatal if swallowed and enters airways.
- Toxicological data** : The calculated ATE values for this mixture are:  
ATE oral = 41 317 mg/kg  
ATE dermal = 40 816 mg/kg  
ATE inhalation (vapours) = 222 mg/L/4H

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Fuels, diesel, no. 2	No information available.	No information available.	No information available.
Solvent naphtha (petroleum), heavy aromatic	> 11.4 mg/L/6H	> 6000 mg/kg	> 3160 mg/kg
Polyoxyethylene Sorbitol Hexaoleate	No information available.	No information available.	No information available.
Carbon dioxide	No information available.	N/Ap (gas)	N/Ap (gas)
Naphthalene	No information available.	2200 mg/kg (rat) 533 mg/kg (mouse)	20,000 mg/kg
2-butoxyethanol	450 ppm/4H (2.175 mg/L)	530 mg/kg	400 - 500 mg/kg
1,2,4-Trimethylbenzene	18 mg/L	5000 mg/kg	> 3160 mg/kg
Xylene	6350 ppm (27.6 mg/L)	3523 mg/kg	12 180 mg/kg

**Routes of exposure** : Eye contact; Skin contact; Inhalation; Ingestion.

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
 ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 13 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Effects of acute exposure** : Inhalation: May cause respiratory irritation. Vapours may cause drowsiness and dizziness. If higher concentrations are inhaled, additional symptoms may include coughing, shortness of breath, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Skin contact: May cause mild skin irritation.

Eye contact: May cause mild eye irritation.

Ingestion: This product is dispensed as a coarse spray/stream. If sprayed into the mouth a pool of liquid can be formed in the mouth which can be swallowed. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

**Potential Chronic Health Effects**

: Repeated exposure may cause skin dryness or cracking.  
 Repeated or prolonged overexposure may cause anemia. Contains:  
 1,2,4-Trimethylbenzene; Naphthalene. Repeated overexposure to naphthalene may cause destruction of red blood cells with anemia, fever, jaundice and kidney and liver damage.

**Other important hazards**

: None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

: Harmful to aquatic life with long lasting effects.  
 No data is available on the product itself. Should not be released into the environment. The product contains the following substances which are hazardous for the environment: Fuels, diesel, no. 2; Solvent naphtha (petroleum), heavy aromatic; 1,2,4-Trimethylbenzene; Naphthalene; Xylene. Other ingredients present in this product are not classified as environmentally toxic in accordance with Regulation (EC) No 1272/2008.

See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Fuels, diesel, no. 2	68476-34-6	21 mg/L (Rainbow trout)	No information available.	None.
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	3.6 mg/L (Rainbow trout)	No information available.	None.
Polyoxyethylene Sorbitol Hexaoleate	57171-56-9	> 100 mg/L	No information available.	None.
Carbon dioxide	124-38-9	Not applicable.	Not applicable.	None.
Naphthalene	91-20-3	0.11 mg/L (Rainbow trout)	0.12 mg/L	1
2-butoxyethanol	111-76-2	1490 mg/L (Bluegill sunfish)	> 100 mg/L (zebra fish)	None.
1,2,4-Trimethylbenzene	95-63-6	7.19 - 8.28 mg/L (Fathead minnow)	No information available.	None.
Xylene	1330-20-7	8.2 mg/L (Rainbow trout)	No information available.	None.

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 14 of 18

**SAFETY DATA SHEET**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Fuels, diesel, no. 2	68476-34-6	49 - 94 mg/L [Daphnia magna (Water flea)]	No information available.	None.
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	1.1 mg/L [Daphnia magna (Water flea)]	No information available.	None.
Polyoxyethylene Sorbitol Hexaoleate	57171-56-9	No information available.	No information available.	None.
Carbon dioxide	124-38-9	Not applicable.	Not applicable.	None.
Naphthalene	91-20-3	2.16 mg/L [Daphnia magna (Water flea)]	0.22 mg/L	None.
2-butoxyethanol	111-76-2	835 mg/L [Daphnia magna (Water flea)]	100 mg/L	None.
1,2,4-Trimethylbenzene	95-63-6	6.14 mg/L [Daphnia magna (Water flea)]	No information available.	None.
Xylene	1330-20-7	3.2 - 9.56 mg/L [Daphnia magna (Water flea)]	No information available.	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Fuels, diesel, no. 2	68476-34-6	10 mg/L/72hr (Green algae)	3 mg/L/72hr (NOEL)	None.
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	7.2 mg/L/72hr (Green algae)	0.22 mg/L/72hr	None.
Polyoxyethylene Sorbitol Hexaoleate	57171-56-9	No information available.	No information available.	None.
Carbon dioxide	124-38-9	Not applicable.	Not applicable.	None.
Naphthalene	91-20-3	0.4 mg/L/72hr (Green algae)	No information available.	1
2-butoxyethanol	111-76-2	911 mg/L/72hr (Green algae)	286 mg/L/72hr	N/Ap
1,2,4-Trimethylbenzene	95-63-6	No information available.	No information available.	None.
Xylene	1330-20-7	3.2 - 4.9 mg/L/72hr (Green algae)	No information available.	None.

**Persistence and degradability**

- : No data is available on the product itself. Contains: Fuels, diesel, no. 2; Solvent naphtha (petroleum), heavy aromatic; 1,2,4-Trimethylbenzene; Naphthalene; Xylene.
- Fuels, diesel, no. 2 is not considered to be readily biodegradable (ECHA).
- Solvent naphtha (petroleum), heavy aromatic is not considered to be readily biodegradable.
- 1,2,4-Trimethylbenzene is not considered readily biodegradable.
- Naphthalene is not considered to be readily biodegradable.
- Xylene is considered to be inherently biodegradable.

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
 ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 15 of 18

**SAFETY DATA SHEET**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Bioaccumulation potential** : The product itself has not been tested. Contains: Solvent naphtha (petroleum), heavy aromatic; 1,2,4-Trimethylbenzene; Naphthalene; Xylene.  
 The log Kow value for Solvent naphtha (petroleum), heavy aromatic is > 3 to < 6.5.  
 The log Pow value for 1,2,4-Trimethylbenzene is 3.63, and its Bioconcentration Factor (BCF) is 31 - 275.  
 The log Kow value for Naphthalene is 3 - 3.5, and its bioconcentration factor (BCF) is 430.  
 The log Pow for Xylene is 3.12.

**Mobility in soil** : The product itself has not been tested.

**Results of PBT and vPvB assessment** : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

**Other Adverse Environmental effects** : None known.

**Water contaminating class (Germany)** : 2 (self classified)



**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods:**

**Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

**Methods of Disposal** : Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**SECTION 14. TRANSPORTATION INFORMATION**

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
ADR/RID	UN1950	AEROSOLS	2.1	none	
EU ADR/RID Classification Code	5F - Aerosol dispensers and receptacles, small, containing gas (gas cartridges); flammable				
EU ADR / RID Hazard Identification Number	none				
ADR/RID Additional information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass.				
ICAO/IATA	UN1950	Aerosols, flammable	2.1	none	
ICAO/IATA Additional information	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.				

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
ENGINE DEGREASER - AEROSOL**


Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 16 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

IMDG	UN1950	AEROSOLS	2.1	none	
<b>IMDG Additional information</b>	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. This product meets the criteria for an environmentally hazardous material according to the IMDG Code. "Marine pollutant" must be included with the shipping description on documentation.				

- Special precautions for user** : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.
- Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
: Not applicable.

### SECTION 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

- : 1. Substances presenting a physical, health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008.
- : 2. Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.
- : 3. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
- : 4. In accordance with the legislation of the United Kingdom.
- : 5. German legislation on water endangering substances VwVwS (see Section 12).

**Chemical safety assessment** : A chemical safety assessment has not been carried out by the Manufacturer of this product.

### SECTION 16. OTHER INFORMATION

- Legend** :
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
  - CAS: Chemical Abstract Services
  - CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
  - EC: European Community
  - EEC: European Economic Community
  - EINECS: European Inventory of Existing Commercial chemical Substances
  - EN: European Standard
  - EU: European Union
  - HSDB: Hazardous Substances Data Bank
  - IATA: International Air Transport Association
  - IBC: Intermediate Bulk Container
  - ICAO: International Civil Aviation Organisation
  - IMDG: International Maritime Dangerous Goods
  - LC: Lethal Concentration
  - LD: Lethal Dose
  - OECD: Organisation for Economic Co-operation and Development
  - OEL: National occupational exposure limits
  - RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
  - RTECS: Registry of Toxic Effects of Chemical Substances
  - SDS: Safety Data Sheet
  - STEL: Short Term Exposure Limit
  - TWA: Time Weighted Average
  - WEL: Workplace Exposure Limit



**ENGINE BRITE® ORIGINAL HEAVY DUTY  
ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 17 of 18

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Information Source** : 1. Material Safety Data Sheet from manufacturer.  
2. Canadian Centre for Occupational Health and Safety, CCIInfoWeb Databases, 2013 (Chempendium, RTECs, HSDB, INCHEM).  
3. European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2013.  
4. European Chemicals Agency, Classification Legislation, 2013.  
5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2013.

**Preparation Date (dd/mm/yyyy)**

: 17/09/2009

**Reviewed Date SDS (dd/mm/yyyy)**

: 27/06/2013

**Revision No.**

: 2

**Revision Information**

: All sections modified.

**H & R-Phrases (Full text)**

: H226 - Flammable liquid and vapour.  
H280 - Contains gas under pressure; may explode if heated.  
H302 - Harmful if swallowed.  
H311 - Toxic in contact with skin.  
H312 - Harmful in contact with skin.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H331 - Toxic if inhaled.  
H332 - Harmful if inhaled.  
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.  
R10 - Flammable.  
R20 - Harmful by inhalation.  
R20/21 - Harmful by inhalation and in contact with skin.  
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.  
R22 - Harmful if swallowed.  
R36/37/38 - Irritating to eyes, respiratory system and skin.  
R36/38 - Irritating to eyes and skin.  
R38 - Irritating to skin.  
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.  
Refer to section 2 for additional H and R phrases not listed here.

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

**ENGINE BRITE® ORIGINAL HEAVY DUTY  
 ENGINE DEGREASER - AEROSOL**

Product code(s): EB1; EB1/6; EB1ES

SDS Revision Date (dd/mm/yyyy): 27/06/2013

Page 18 of 18

### SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

<p><b>Prepared for:</b>          Radiator Specialty Company          600 Radiator Road          Indian Trail, North Carolina, U.S.A.          28079          Telephone: 001-704-821-7643          Please direct all enquiries to Radiator Specialty Company or          EcoMundo (as "Only Representative" of RSC).</p>	
<p><b>Prepared by:</b>          ICC The Compliance Center Inc.  <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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