SAFETY DATA SHEET



1. Identification

Product identifier	Engine Brite Heavy Duty Eng	ine Degreaser	
Other means of identification			
SDS number	EB1		
Part No.	EB1, EB1/6		
Tariff code	3814.00.5090		
Recommended use	Engine Degreaser		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/ Manufacturer	Distributor information		
Company name Address	RSC Chemical Solutions 600 Radiator Road Indian Trail, NC 28079 United States		
Telephone	Customer Service: Technical:	(704) 821-76 (704) 684-18	
Website E-mail	www.rscbrands.com sds@rscbrands.com		
Emergency phone number	Emergency Telephone: Emergency Contact:	(303) 623-57 RMPDC (877	
2. Hazard(s) identification			
Physical hazards	Flammable aerosols		Category 1
Health hazards	Acute toxicity, oral		Category 4
	Acute toxicity, inhalation		Category 4
	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irritat	ion	Category 2A
	Carcinogenicity		Category 2
	Specific target organ toxicity, s	ingle exposure	Category 3 narcotic effects
	Specific target organ toxicity, re exposure	epeated	Category 2
	Aspiration hazard		Category 1
Environmental hazards	Hazardous to the aquatic envir long-term hazard	onment,	Category 2
OSHA defined hazards	Not classified.		

Label elements

Signal word Hazard statement

Danger

Extremely flammable aerosol. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	96.45% of the mixture consists of component(s) of unknown acute oral toxicity. 2.09% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Petroleum Distillate Aliphatic		68476-34-6	60 - < 70
Kerosine (petroleum)		8008-20-6	20 - < 30
Distillates (petroleum), Hydrotreated Light		64742-47-8	3 - < 5
Carbon Dioxide		124-38-9	1 - < 3
NAPHTHALENE		91-20-3	< 0.3
Other components below reportable	levels		5 - < 10

Other components below reportable levels

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Diarrhea. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Dry powder. Carbon dioxide (CO2).

Suitable extinguishing media	Alcohol resistant foam. Dry powder. Carbon dioxide (CO2).
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.
media	

Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
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. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Level 3 Aerosol. Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
		5000 ppm	
NAPHTHALENE (CAS 91-20-3)	PEL	50 mg/m3	
,		10 ppm	

Components	Туре	Value	Form
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
,	TWA	5000 ppm	
Kerosine (petroleum) (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.
NAPHTHÁLENE (CAS 91-20-3)	TWA	10 ppm	
Petroleum Distillate Aliphatic (CAS 68476-34-6)	TWA	100 mg/m3	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)	TWA	100 mg/m3	
Kerosine (petroleum) (CAS 8008-20-6)	TWA	100 mg/m3	
NAPHTHÁLENE (CAS 91-20-3)	STEL	75 mg/m3	
,		15 ppm	
	TWA	50 mg/m3	
		10 ppm	
logical limit values	No biological exposure limit	ts noted for the ingredient(s).	
osure guidelines			
US ACGIH Threshold Limit	t Values: Skin designation		
Kerosine (petroleum) (C NAPHTHALENE (CAS Petroleum Distillate Alip		Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin.	
oropriate engineering trols	should be matched to cond or other engineering contro exposure limits have not be	vpically 10 air changes per hour) should l itions. If applicable, use process enclosu Is to maintain airborne levels below reco een established, maintain airborne levels ncy shower must be available when hand	res, local exhaust ventilatio mmended exposure limits. I to an acceptable level. Eye
vidual protection measures Eye/face protection	s, such as personal protectiv Chemical respirator with or	e equipment ganic vapor cartridge and full facepiece.	
Skin protection			
Hand protection	Wear appropriate chemical supplier.	resistant gloves. Suitable gloves can be	recommended by the glove
Other	Wear appropriate chemical	resistant clothing. Use of an impervious	apron is recommended.
Respiratory protection	Chemical respirator with or	ganic vapor cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal p	protective clothing, when necessary.	
neral hygiene		Keep away from food and drink. Always washing after handling the material and	

Appearance	Clear.
Physical state	Liquid.
Form	Aerosol.
Color	Red
Odor	Diesel Fuel odor
Odor threshold	Not available.

рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	347 °F (175 °C) estimated
Flash point	136.0 °F (57.8 °C) Tag Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	0.7 % estimated
Flammability limit - upper (%)	5 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.64 hPa estimated
Vapor density	Not available.
Relative density	0.834 g/cm3
Solubility(ies)	
Solubility (water)	0.1
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	500 °F (260 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	None known.
Density	7.01 lbs/gal
Explosive properties	Not explosive.
Flame extension	> 37 in
Flammability (flash back)	No
Flammability class	Combustible II estimated
Heat of combustion (NFPA 30B)	39.8 kJ/g
Oxidizing properties	Not oxidizing.
Percent volatile	0.98 % estimated
Specific gravity	0.84
VOC (Weight %)	14.69 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.

Ingestion	Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.		
Symptoms related to the physical, chemical and toxicological characteristics	 Vorniting may cause a serious chemical pneumonia. Headache. May cause drowsiness and dizziness. Nausea, vomiting. Diarrhea. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. 		
Information on toxicological eff	ects		
Acute toxicity	May be fatal if swallowed a	nd enters airways. Harmful if inhaled. Narcotic effects.	
Components	Species	Test Results	
NAPHTHALENE (CAS 91-20-3)			
Acute			
Dermal			
LD50	Rabbit	> 2 g/kg	
	Rat	> 20 g/kg	
Oral			
LD50	Guinea pig	1200 mg/kg	
	Rat	490 mg/kg	
* Estimates for product may b	be based on additional compo	nent data not shown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respiratory sensitizer		
Skin sensitization	This product is not expecte	d to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing canc	er.	
IARC Monographs. Overall	Evaluation of Carcinogenic	ity	
NAPHTHALENE (CAS 9 Petroleum Distillate Aliph OSHA Specifically Regulate		2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.).1001-1050)	
Not listed.			
	ogram (NTP) Report on Car	-	
NAPHTHALENE (CAS 9		Reasonably Anticipated to be a Human Carcinogen.	
Reproductive toxicity		d to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause drowsiness and	dizziness.	
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	May be fatal if swallowed a	nd enters airways.	
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation ma be harmful. Prolonged exposure may cause chronic effects.		

12. Ecological information

otoxicity	Toxic to a	quatic life with long lasting effects.		
Components	Species		Test Results	
Distillates (petroleum)	, Hydrotreated Light	t (CAS 64742-47-8)		
Aquatic				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours	
NAPHTHALENE (CAS	S 91-20-3)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours	

Components		Species	Test Results
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	1.11 - 1.68 mg/l, 96 hours
* Estimates for product may b	e based on add	itional component data not shown.	
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulative potential			
Partition coefficient n-octar NAPHTHALENE	ol / water (log l	Kow) 3.3	
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideration	ns		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products		accordance with local regulations. Empty c les. This material and its container must be uctions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.		

14. Transport information

DOT		
UN number	Not available.	
UN proper shipping name	Consumer Commodity	
Transport hazard class(es)		
Class	ORM-D	
Subsidiary risk	-	
Packing group	Not applicable.	
Environmental hazards		
Marine pollutant	Yes	
· · ·	Read safety instructions, SDS and emergency procedures before handling.	
Special provisions	T75, TP5	
Packaging exceptions	306	
Packaging non bulk	304	
Packaging bulk	314, 315	
ΙΑΤΑ		
UN number	UN1950	
UN proper shipping name	Aerosols, flammable	
Transport hazard class(es)		
Class	2.1	
Subsidiary risk	-	
Packing group	Not applicable.	
Environmental hazards	Yes	
ERG Code	10L	
	Read safety instructions, SDS and emergency procedures before handling.	
Other information		
Passenger and cargo	Allowed.	
aircraft		
Cargo aircraft only	Allowed.	
IMDG		
UN number	UN1950	
UN proper shipping name	AEROSOLS	

Transport hazard class(es) Class 2 Subsidiary risk **Packing group** Not applicable. **Environmental hazards** Marine pollutant Yes F-D, S-U EmS Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code IATA; IMDG Marine pollutant **General information** IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant. 15. Regulatory information **US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) NAPHTHALENE (CAS 91-20-3) Listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - Yes Hazard categories **Delaved Hazard - Yes** Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
NAPHTHALENE		91-20-3	< 0.3	
Other federal regulations				
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Po	ollutants (HAPs) List		
NAPHTHALENE (CAS 9				
Clean Air Act (CAA) Sectior	n 112(r) Accidental Rel	ease Prevention (40 CFR	68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
US. California Controlled Su	ubstances. CA Departr	ment of Justice (California	a Health and Safety Co	de Section 11100)
Not listed. US. California. Candidate C (a))	hemicals List. Safer Co	onsumer Products Regul	ations (Cal. Code Regs	s, tit. 22, 69502.3, subd.
Distillates (petroleum), H Kerosine (petroleum) (CA NAPHTHALENE (CAS 9	AS 8008-20-6)	64742-47-8)		
Petroleum Distillate Aliph				
US. Massachusetts RTK - S				
Carbon Dioxide (CAS 12 Distillates (petroleum), H Kerosine (petroleum) (CA NAPHTHALENE (CAS 9	ydrotreated Light (CAS (AS 8008-20-6)	64742-47-8)		
US. New Jersey Worker and		Know Act		
Carbon Dioxide (CAS 12 Distillates (petroleum), H Kerosine (petroleum) (CA	ydrotreated Light (CAS (AS 8008-20-6)	64742-47-8)		
NAPHTHALENE (CAS 9 Petroleum Distillate Aliph				
US. Pennsylvania Worker a		o-Know Law		
Carbon Dioxide (CAS 12				
Distillates (petroleum), H Kerosine (petroleum) (CA NAPHTHALENE (CAS 9 Petroleum Distillate Aliph	AS 8008-20-6) 1-20-3)	64742-47-8)		
US. Rhode Island RTK				
NAPHTHALENE (CAS 9	1-20-3)			
US. California Proposition 6 WARNING: This product		own to the State of Californ	ia to cause cancer.	
US - California Proposi	tion 65 - CRT: Listed d	ate/Carcinogenic substa	nce	
NAPHTHALENE (CA	AS 91-20-3)	Listed: April 19, 2	2002	
Volatile organic compounds (VC	DC) regulations			
EPA Consumer products	Compliant			
(40 CFR 59, Subpt. C) International Inventories				
Country(s) or region Australia	Inventory name	of Chemical Substances (A	ICS)	*On inventory (yes/no) No
Canada	Domestic Substances		100)	No
Canada	Non-Domestic Substa			Yes
China		Chemical Substances in Ch	nina (IECSC)	No
Europe		f Existing Commercial Che		Nc
Europe		fied Chemical Substances	(ELINCS)	Nc
Japan		and New Chemical Substar		No
Korea	Existing Chemicals Li	st (ECL)		No
Material name: Engine Brite Heavy D	uty Engine Degreaser			SDS US

Country(s) or region	Inventory name	On inventory (yes/no)*
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-20-2015
Revision date	11-19-2015
Version #	03
HMIS® ratings	Health: 2* Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 2 Instability: 0
NFPA ratings	2 0
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision Information	Hazard(s) identification: Storage Physical & Chemical Properties: Multiple Properties Transport Information: Material Transportation Information Regulatory Information: United States

GHS: Classification