

**1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**

**1.1 Product Identifier**

Material name : Motor Flush  
Product code : SXMF400

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

Product use : Vehicle system additive.

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

Manufacturer/Supplier: Central Solutions (GB) Ltd  
Sol-X House  
Windmill Lane  
Norton  
Doncaster  
DN6 9AT

Tel. : +44 (0) 1302 708895  
Fax. : +44 (0) 1302 708895

Email (for SDSs) : info@solxsolutions.com

1.4 Emergency tel. no. : +44 (0) 1302 708895 (Office hours)

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Skin Irritant Category 2  
Aspiration hazard Category 1  
STOT SE Category 3, Narcotic effects  
Aquatic Chronic Category 2

**2.2 Label elements**

Labelling according to EC Directives: 1272/2008/EC:

Signal word: Danger

Pictogram(s):



H-Statements: H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

P-Statements: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.  
P331 Do NOT induce vomiting.

**2.3 Other hazards**

No data available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Mixtures:****Hazardous components**

Chemical Name	CAS No./ EC No./ Reg. No	Classification (67/548/EEC)	Classification (1272/2008/EC)	Content
DISTILLATES (PETROLEUM) HYDROTREATED LIGHT	64742-47-8 265-149-8 01-2119484819-18- 0010	[Xn] R65 [Xi] R38 [N] R51/53	Sk.Irrit.2; H315 Asp.Tox.1; H304 STOT SE3; H336 Aquatic Chronic 2; H411	>90%

See Section 16 for the full text of the R-phrases and H-statements noted above.

(1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation).

**4. FIRST AID MEASURES****4.1 Description of first aid measures****General advice:** Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.**Skin contact:** Wash with soap and water. Seek medical advice if irritation develops.**Eye contact:** Rinse with water for 10 minutes and seek medical advice if irritation persists.**Ingestion:** Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.**Inhalation :** Inhalation of high levels of vapour may cause CNS depression and narcosis. Remove to fresh air, give oxygen or artificial respiration and seek medical advice.**4.2 Most important symptoms and effects, both acute and delayed**

High levels of vapour may cause irritation to eyes, nose or throat.

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

See inhalation information above.

**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

Suitable extinguishing media: Carbon dioxide; dry chemical powder; alcohol or polymer foam.

Unsuitable extinguishing media: High volume water jet

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

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

**5.3 Advice for fire-fighters:**

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool unopened containers.  
Do not allow fire run-off to enter drains.

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel.  
Use personal protective equipment to deal with spillage.

**6.2 Environmental precautions**

Prevent product from entering drains. If product enters waterways, inform relevant authorities.

**6.3 Methods and materials for containment and cleaning up**

Wipe up any liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

**6.4 References to other sections**

See sections 8 and 13 for personal protection and disposal information.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Handle with care.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, well ventilated area. Protect from frost, heat and sunlight. Incompatible with oxidising agents. Keep away from food, drink and animal feed.

**7.3 Specific end use(s)**

No information available.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1 Control parameters**

Chemical name	8hr TWA	15min STEL	Comment	Reference
Distillates (Petroleum) Hydrotreated Light	200 mg/m <sub>3</sub>	-	-	Supplier

**8.2 Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Personal protective equipment**

**Respiratory protection:** Unlikely to be necessary in normal circumstances; if vapour levels are high, wear a respirator conforming to EN 140 with type A filter or better.

**Hand protection:** Wear chemically resistant gloves such as butyl rubber approved to standard EN 374; material thickness 0.5mm; break through time  $\geq$  480 min. Gloves must be replaced after 8 hours of wear. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Check with glove manufacturer for specific advice.

**Eye protection:** Chemical splash goggles and/or face shield should be worn. The selected goggles or glasses must satisfy the European standard EN 166.

**Skin and body protection:** Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. The selected protective clothing has to satisfy the standard EN 13034, which describes clothing offering limited 8 hour protection against splashes. Use PPE that is chemically resistant to the product and prevents skin contact.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

**Environmental exposure controls:** Do not discharge into drains or rivers.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

State and colour	Clear colourless/pale straw liquid
Odour	Hydrocarbon
Odour Threshold	No data available
Flammability	Non-Flammable
Flash point	66-67°C
Lower explosion limit	1.0%
Upper explosion limit	6.0%
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	>220°C
Oxidising properties	Non-oxidising
Solubility in water	Immiscible
Solubility in other solvents	Alcohols
pH	Neutral
Melting point/range	-49°C (Pour point)
Boiling point/range	150-290°C
Relative density	0.81-0.82 g/cm <sub>3</sub> @ 20°C
Vapour pressure	1-21 kPa @ 37°C
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	1.5-2 mPas @ 20°C
Evaporation rate	No data available

**10. STABILITY AND REACTIVITY**

- 10.1 Reactivity** Generally non-reactive. May partially oxidise on contact with air.
- 10.2 Chemical stability** Stable under normal conditions.
- 10.3 Possibility of hazardous reactions** None if stored and used as directed.
- 10.4 Conditions to avoid** Naked flames, ignition sources.
- 10.5 Incompatible materials** Strong oxidising agents.
- 10.6 Hazardous decomposition products** Oxides of carbon. Oxides of sulphur.

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Distillates (Petroleum) Hydrotreated Light	>5000 mg/kg (Rat)	>5 mg/l (Rat) 4h	>2000 mg/kg (Rabbit)

- Skin corrosion/irritation:** Irritating to skin.
- Serious eye damage/eye irritation:** Slightly irritating to eyes.
- Respiratory or skin sensitisation:** Not classed as a respiratory or skin sensitizer.
- Repeated dose toxicity:** No data available.
- Carcinogenicity:** Not carcinogenic.
- Mutagenicity:** Not mutagenic.
- Toxicity for reproduction:** Not toxic for reproduction.
- Specific target organ toxicity (STOT):** High vapour concentrations may cause central nervous system depression resulting in headaches, nausea and dizziness, continued inhalation may result in unconsciousness or even death.
- Further information** Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Chemical name	Species	Test	Value
Distillates (Petroleum) Hydrotreated Light	Daphnia	LL/EL/IL50	>1<=10 mg/l
	Fish	LL/EL/IL50	>1<=10 mg/l
	Algae	LL/EL/IL50	>1<=10 mg/l

- 12.2 Persistence and degradability** Inherently biodegradable. The volatile constituents will oxidise rapidly by photochemical reactions in air.
- 12.3 Bioaccumulative potential** Contains constituents with the potential to bioaccumulate.
- 12.4 Mobility in soil** Floats on water. Large volumes may penetrate soil and contaminate ground water.
- 12.5 Results of PBT and vPvB assessment** Contains no PBT or vPvB substances.
- 12.6 Other adverse effects** Films formed on water may affect oxygen transfer and damage organisms.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Disposal operations: Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations. Do not dispose of waste into sewer.  
Do not dispose of together with household waste. Contact licensed waste disposal company.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not burn or use a cutting torch on the empty container.

**14. TRANSPORT INFORMATION**

- 14.1 UN number** ADR/RID/ADN; IMDG; ICAO: 3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S. {Distillates (Petroleum) Hydrotreated Light}
- 14.3 Transport hazard class(es) :** 9
- 14.4 Packing Group:** III
- 14.5 Environment hazards** Marine Pollutant: Yes
- 14.6 Special precautions for user:** EMS: F-A, S-F
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Volatile Organic Compounds (VOC) content: 767 g/l. (Directive 1999/13/EC)

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been performed on this product.

**16. OTHER INFORMATION****Full text of R-phrases referred to under sections 2 and 3**

R38 Irritating to skin.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.

**Full text of H-statements referred to under sections 2 and 3**

H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms**

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.  
STOT: Single Target Organ Toxicity (Section 3 and 11).  
TWA: Time-weighted average. (Section 8).  
STEL: Short-term exposure limit. (Section 8).  
DNEL: Derived no effect level – a level above which humans should not be exposed. (Section 8).  
EC50: Effective Concentration, 50 percent. (Section 12).  
LC50: Lethal Concentration, 50 percent. (Section 11/12).  
LD50: Lethal Dose, 50 percent. (Section 11).

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

[final page]