



## SAFETY DATA SHEET STAR CARBON CLEAN LT

PRODUCT CODE: 00951079

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name STAR CARBON CLEAN LT

Product number 00951079

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

**Identified uses** STAR CARBON CLEAN LT was developed for removal of carbon type deposits from heat exchangers, burner tips, fuel injectors and other engine parts.

Can be soaked overnight with 2 parts fresh water and light deposits will be removed in a couple of hours.

When cleaning heat exchangers dilute with 25% water and heat to max of 55°C and flush for 12 hours etc

Flush with clean water.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** STAR International  
Star House  
Turbine Business Park  
Turbine Road  
Birkenhead  
Merseyside  
CH41 9BA  
Tel: +44 (0) 1244 504 500  
Fax: +44 (0) 1244 504 504  
www.star-international.co.uk

#### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1244 504 500 (Office hours only)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

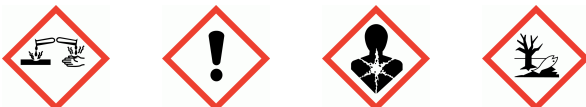
**Physical hazards** Not Classified

**Health hazards** Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Asp. Tox. 1 - H304

**Environmental hazards** Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

#### 2.2. Label elements

##### Hazard pictograms



## STAR CARBON CLEAN LT

<b>Signal word</b>	Danger
<b>Hazard statements</b>	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H304 May be fatal if swallowed and enters airways. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	P260 Do not breathe vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	SURFAC UN65/95, KEROSENE ODOURLESS, 2-Propylheptanol ethoxylate, QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-C16 ALKYL DIMETHYL CHLORIDES
<b>Supplementary precautionary statements</b>	P270 Do not eat, drink or smoke when using this product. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P321 Specific treatment (see medical advice on this label). P363 Wash contaminated clothing before reuse. P391 Collect spillage. P405 Store locked up.

### 2.3. Other hazards

Not available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>SURFAC UN65/95</b>	<b>10-30%</b>
CAS number: 68439-46-3	
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318	
<b>DGMBE SOLVENT</b>	<b>10-30%</b>
CAS number: 112-34-5	EC number: 203-961-6
	REACH registration number: 01-2119475104-44-XXXX
<b>Classification</b> Eye Irrit. 2 - H319	

## STAR CARBON CLEAN LT

<b>2-Propylheptanol ethoxylate</b>	<b>10-30%</b>
CAS number: 160875-66-1	
<b>Classification</b> Eye Dam. 1 - H318	
<b>KEROSENE ODOURLESS</b>	<b>10-30%</b>
CAS number: 64742-47-8	EC number: 926-141-6
	REACH registration number: 01-2119456620-43-XXXX
<b>Classification</b> Asp. Tox. 1 - H304	
<b>QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-C16 ALKYLDIMETHYL CHLORIDES</b>	<b>5-10%</b>
CAS number: 68424-85-1	EC number: 270-325-2
	REACH registration number: 01-2119965180-41-XXXX
M factor (Acute) = 10	M factor (Chronic) = 1
<b>Classification</b> Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>Ingestion</b>	Harmful if swallowed. May be fatal if swallowed and enters airways.
<b>Skin contact</b>	Causes severe skin burns and eye damage.
<b>Eye contact</b>	Causes serious eye damage.

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

<b>Notes for the doctor</b>	No information available.
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## STAR CARBON CLEAN LT

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Follow precautions for safe handling described in this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Avoid discharge into drains.

#### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Corrosive storage.

#### 7.3. Specific end use(s)

**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

##### DGMBE SOLVENT

Long-term exposure limit (8-hour TWA): WEL 10 ppm 67,5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 15 ppm 101,2 mg/m<sup>3</sup>

##### KEROSENE ODOURLESS

Long-term exposure limit (8-hour TWA): WEL 1200 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

## STAR CARBON CLEAN LT

### DGMBE SOLVENT (CAS: 112-34-5)

<b>DNEL</b>	<p>Workers - Inhalation; Short term local effects: 101.2 mg/m<sup>3</sup></p> <p>Workers - Dermal; Long term systemic effects: 83 mg/kg/day</p> <p>Workers - Inhalation; Long term systemic effects: 67.5 mg/m<sup>3</sup></p> <p>Workers - Inhalation; Long term local effects: 67.5 mg/m<sup>3</sup></p> <p>Workers - Inhalation; Short term local effects: 60.7 mg/m<sup>3</sup></p> <p>Consumer - Dermal; Long term systemic effects: 50 mg/kg/day</p> <p>Consumer - Inhalation; Long term systemic effects: 40.5 mg/m<sup>3</sup></p> <p>Consumer - Oral; Long term systemic effects: 5 mg/kg/day</p> <p>Consumer - Inhalation; Long term local effects: 40.5 mg/m<sup>3</sup></p>
<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 1.1 mg/l</li> <li>- Sediment (Freshwater); 4.4 mg/kg</li> <li>- Intermittent release; 11 mg/l</li> <li>- Sediment (Marinewater); 0.44 mg/kg</li> <li>- marine water; 0.1 mg/l</li> <li>- STP; 200 mg/l</li> <li>- Soil; 0.32 mg/kg</li> </ul>

### QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-C16 ALKYL DIMETHYL CHLORIDES (CAS: 68424-85-1)

<b>DNEL</b>	<p>Workers - Inhalation; Long term systemic effects: 3.96 mg/m<sup>3</sup></p> <p>Workers - Dermal; Long term systemic effects: 5.7 mg/kg/day</p> <p>Consumer - Inhalation; Long term systemic effects: 3.4 mg/kg/day</p> <p>Consumer - Oral; Long term systemic effects: 3.4 mg/kg/day</p>
<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 0.0009 mg/l</li> <li>- marine water; 0.00009 mg/l</li> <li>- Intermittent release; 0.00016 mg/l</li> <li>- STP; 0.4 mg/l</li> <li>- Sediment (Freshwater); 0.267 mg/kg</li> <li>- Sediment (Marinewater); 0.0267 mg/kg</li> <li>- Soil; 7 mg/kg</li> </ul>

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

### Eye/face protection

The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

### Hand protection

Use protective gloves. 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. To protect hands from chemicals, gloves should comply with European Standard EN374.

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

## STAR CARBON CLEAN LT

<b>Hygiene measures</b>	When using do not eat, drink or smoke. 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.
<b>Respiratory protection</b>	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Wear a respirator fitted with the following cartridge: Organic vapour filter.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>pH</b>	pH (concentrated solution): ~6.2
<b>Flash point</b>	>61°C Closed cup.
<b>Relative density</b>	~0.98 @ 20°C

#### 9.2. Other information

<b>Other information</b>	Not available.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	No information available.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Not available.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid contact with the following materials: Acids. Oxidising agents.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong oxidising agents.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).
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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

<b>ATE oral (mg/kg)</b>	1,930.5
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##### Skin corrosion/irritation

<b>Skin corrosion/irritation</b>	May cause serious chemical burns to the skin.
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##### Serious eye damage/irritation

<b>Serious eye damage/irritation</b>	Causes serious eye damage.
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## STAR CARBON CLEAN LT

### Respiratory sensitisation

**Respiratory sensitisation** No information available.

### Skin sensitisation

**Skin sensitisation** No information available.

### Germ cell mutagenicity

**Genotoxicity - in vitro** 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** No information available.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** No information available.

### Aspiration hazard

**Aspiration hazard** May be fatal if swallowed and enters airways.

### Ingestion

Harmful if swallowed. May be fatal if swallowed and enters airways.

### Skin contact

Causes severe skin burns and eye damage.

### Eye contact

Causes serious eye damage.

### Acute and chronic health hazards

Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

### Toxicological information on ingredients.

#### DGMBE SOLVENT

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rat

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** >29 ppm, Inhalation, Rat

##### Skin corrosion/irritation

**Animal data** Not irritating.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Irritating to eyes.

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### Respiratory sensitisation

**Respiratory sensitisation** No specific test data are available.

### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - : Not sensitising.

### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

### Carcinogenicity

**Carcinogenicity** No specific test data are available.

### Reproductive toxicity

**Reproductive toxicity - fertility** This substance has no evidence of toxicity to reproduction.

**Reproductive toxicity - development** This substance has no evidence of toxicity to reproduction.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Prolonged or repeated exposure may cause the following adverse effects: Liver and/or kidney damage.

### Aspiration hazard

**Aspiration hazard** Not available.

**Inhalation** May cause respiratory system irritation.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** May be slightly irritating to skin.

**Eye contact** Causes serious eye irritation.

## KEROSENE ODOURLESS

**Other health effects** Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Oral, Rat

### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rabbit

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Dermal, Rabbit

### Skin corrosion/irritation

**Skin corrosion/irritation** Conclusive data but not sufficient for classification.



## STAR CARBON CLEAN LT

<b>Animal data</b>	No information available.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	May cause temporary eye irritation.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	There is no evidence that the material can lead to respiratory hypersensitivity.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	No information available.
<b>Reproductive toxicity - development</b>	This substance has no evidence of toxicity to reproduction.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	No information available.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
.	
<b>Inhalation</b>	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. Vapours in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
<b>Ingestion</b>	Aspiration hazard if swallowed. May be fatal if swallowed and enters airways. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Development of symptoms may be delayed for 24 to 48 hours.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking. Product has a defatting effect on skin. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
<b>Eye contact</b>	May cause temporary eye irritation.

### SECTION 12: Ecological information

#### Ecological information on ingredients.

#### DGMBE SOLVENT

## STAR CARBON CLEAN LT

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### KEROSENE ODOURLESS

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

#### 12.1. Toxicity

**Toxicity** Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

#### Ecological information on ingredients.

### SURFAC UN65/95

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1 - 10 mg/l, Fish

### DGMBE SOLVENT

**Toxicity** Not considered toxic to fish.

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 2700 mg/l, Fish  
LC<sub>50</sub>, 96 hours: 1300 mg/l, Lepomis macrochirus (Bluegill)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 101 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: >100 mg/l, Freshwater plants

### KEROSENE ODOURLESS

**Toxicity** Not considered toxic to fish.

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)  
LC<sub>50</sub>, 96 hours: > 1000 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: > 1000 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: 20 ppm mg/l, Algae

#### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOEC, 28 days: 0.17 mg/l, rainbow trout (Oncorhynchus mykiss)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 1.22 mg/l, Daphnia magna

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#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.01 < L(E)C<sub>50</sub> ≤ 0.1

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<b>M factor (Acute)</b>	10
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 0.85 mg/l, Algae LC <sub>50</sub> , 96 hour: 0.515 mg/l, Lepomis macrochirus (Bluegill)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.016 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hour: 0.049 mg/l, Selenastrum capricornutum EC10, 72 hour: 0.009 mg/l, Selenastrum capricornutum
<b><u>Chronic aquatic toxicity</u></b>	
<b>NOEC</b>	0.01 < NOEC ≤ 0.1
<b>Degradability</b>	Non-rapidly degradable
<b>M factor (Chronic)</b>	1
<b>Chronic toxicity - fish early life stage</b>	NOEC, 28 days: 0.032 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 day: 0.015 mg/l, Daphnia magna

### 12.2. Persistence and degradability

**Persistence and degradability** No data available.

### Ecological information on ingredients.

#### SURFAC UN65/95

<b>Persistence and degradability</b>	This surfactant complies 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.
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#### DGMBE SOLVENT

<b>Persistence and degradability</b>	The product is readily biodegradable.
<b>Biodegradation</b>	- Degradation 80-90%: 28 days

#### KEROSENE ODOURLESS

<b>Persistence and degradability</b>	The product is expected to be biodegradable.
<b>Biodegradation</b>	- Degradation 69: 28 days

#### QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-C16 ALKYL DIMETHYL CHLORIDES

<b>Persistence and degradability</b>	The product is biodegradable.
<b>Biodegradation</b>	Degradation (%) - -97: > 10 days OECD 301D

## STAR CARBON CLEAN LT

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### Ecological information on ingredients.

#### DGMBE SOLVENT

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient** : 0.56

#### KEROSENE ODOURLESS

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

#### QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-C16 ALKYLDIMETHYL CHLORIDES

**Bioaccumulative potential** BCF: 79, Lepomis macrochirus (Bluegill)

**Partition coefficient** log Pow: < 3 Estimated value

### 12.4. Mobility in soil

**Mobility** The product is miscible with water and may spread in water systems.

### Ecological information on ingredients.

#### DGMBE SOLVENT

**Mobility** The product is soluble in water.

#### KEROSENE ODOURLESS

**Mobility** The product is insoluble in water and will spread on the water surface. The product contains volatile substances which may spread in the atmosphere.

**Surface tension** 0.0257 mN/m @ 25°F

### 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.

### Ecological information on ingredients.

#### DGMBE SOLVENT

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### KEROSENE ODOURLESS

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-C16 ALKYLDIMETHYL CHLORIDES

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

## STAR CARBON CLEAN LT

### 12.6. Other adverse effects

**Other adverse effects** Not available.

### Ecological information on ingredients.

#### DGMBE SOLVENT

**Other adverse effects** Not determined.

#### KEROSENE ODOURLESS

**Other adverse effects** Not determined.

#### QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-C16 ALKYLDIMETHYL CHLORIDES

**Other adverse effects** Not determined.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**General information** When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### **SECTION 14: Transport information**

#### 14.1. UN number

<b>UN No. (ADR/RID)</b>	1760
<b>UN No. (IMDG)</b>	1760
<b>UN No. (ICAO)</b>	1760
<b>UN No. (ADN)</b>	1760

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** CORROSIVE LIQUID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-C16 ALKYLDIMETHYL CHLORIDES)

**Proper shipping name (IMDG)** CORROSIVE LIQUID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-C16 ALKYLDIMETHYL CHLORIDES)

**Proper shipping name (ICAO)** CORROSIVE LIQUID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-C16 ALKYLDIMETHYL CHLORIDES)

**Proper shipping name (ADN)** CORROSIVE LIQUID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-C16 ALKYLDIMETHYL CHLORIDES)

#### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	8
<b>ADR/RID classification code</b>	C9
<b>ADR/RID label</b>	8
<b>IMDG class</b>	8
<b>ICAO class/division</b>	8

## STAR CARBON CLEAN LT

ADN class 8

### Transport labels



### 14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

ADN packing group II

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2X

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**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.

### 15.2. Chemical safety assessment

Not available.

## SECTION 16: Other information

**General information** Only trained personnel should use this material.

## STAR CARBON CLEAN LT

<b>Key literature references and sources for data</b>	Health and Safety Executive (HSE). MARPOL 73/78 Annex II - Regulations for the Control of Pollution by Noxious Liquid Substances in Bulk. Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>Revision date</b>	16/06/2020
<b>SDS number</b>	21576
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. 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.
<b>Signature</b>	Auguste Little