



**SAFETY DATA SHEET
STAR SEACLEAN EXTRA**

PRODUCT CODE: 00920019

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

1.1. Product identifier

Product name STAR SEACLEAN EXTRA

Product number 00920019

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

Identified uses Star Seaclean Extra is a multi purpose tank cleaner for removing deposits after carrying mineral oil based cargoes. It is also suitable for deep tank and double bottom cleaning and general degreasing in engine rooms etc.

Dosage:

- Direct Injection Method - 1-2 ltr per tonne of wash water.
- Hand Spray Cleaning - Use undiluted to spray on bulkheads, frames and stringers.
- Leave for sufficient dwell time dependent on degree of contamination and wash off with water.
- For more detailed information please refer to Technical Data Sheet (TDS).

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 Flam. Liq. 3 - H226

Health hazards Eye Dam. 1 - H318 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



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Signal word	Danger
Hazard statements	H226 Flammable liquid and vapour. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways.
Precautionary statements	P240 Ground and bond container and receiving equipment. P242 Use non-sparking tools. P261 Avoid breathing vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. 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. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/ container in accordance with national regulations.
Contains	HYDROCARBONS, C9, AROMATICS, KEROSENE ODOURLESS, FATTY ALCOHOL SURFACTANT, FATTY ALCOHOL SURFACTANT
Supplementary precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 Use explosion-proof electrical equipment. P243 Take action to prevent static discharges. P271 Use only outdoors or in a well-ventilated area. P312 Call a POISON CENTRE/doctor if you feel unwell. P331 Do NOT induce vomiting. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

2.3. Other hazards

Not available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROCARBONS, C9, AROMATICS	60-100%
CAS number: 64742-95-6	EC number: 918-668-5
	REACH registration number: 01-2119455851-35-XXXX
Classification	
Flam. Liq. 3 - H226	
STOT SE 3 - H335, H336	
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	

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KEROSENE ODOURLESS		30-60%
CAS number: 64742-47-8	EC number: 926-141-6	REACH registration number: 01-2119456620-43-XXXX
Classification		
Asp. Tox. 1 - H304		
FATTY ALCOHOL SURFACTANT		1-5%
CAS number: 68603-42-9		
Classification		
Skin Irrit. 2 - H315 Eye Dam. 1 - H318		
FATTY ALCOHOL SURFACTANT		1-5%
CAS number: 68439-46-3		
Classification		
Acute Tox. 4 - H302 Eye Dam. 1 - H318		

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

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation	May cause respiratory irritation. May cause drowsiness or dizziness.
Ingestion	May be fatal if swallowed and enters airways.
Skin contact	Repeated exposure may cause skin dryness or cracking.

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

Notes for the doctor	No information available.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray, foam, dry powder or carbon dioxide.

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5.2. Special hazards arising from the substance or mixture

Specific hazards Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. Flammable liquid and vapour.

5.3. Advice for firefighters

Protective actions during firefighting Cool containers exposed to flames with water until well after the fire is out.

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 discharge into drains or watercourses or onto the ground. 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 Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. 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 the spillage or runoff entering drains, sewers or watercourses.

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 Keep away from heat, sparks and open flame. 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 Flammable liquid and vapour. Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Flammable liquid 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

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Long-term exposure limit (8-hour TWA): WEL 1200 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

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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 suitable protective clothing as protection against splashing or contamination.

Hygiene measures

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.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type A2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless to pale yellow.
Odour	Organic solvents.
pH	pH (concentrated solution): ~7.0
Relative density	~0.9 @ 20°C

9.2. Other information

Other information	Not available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No information available.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not available.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time.
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10.5. Incompatible materials

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Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances:
Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 13,513.51

Skin corrosion/irritation

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

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 Aspiration hazard if swallowed.

Inhalation

May cause respiratory irritation. May cause drowsiness or dizziness.

Ingestion

May be fatal if swallowed and enters airways.

Skin contact

Repeated exposure may cause skin dryness or cracking.

Eye contact

May cause severe eye irritation.

Toxicological information on ingredients.

KEROSENE ODOURLESS

Other health effects

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

Acute toxicity - oral

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Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
Notes (oral LD₅₀)	LD ₅₀ >5000 mg/kg, Oral, Rat
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	5,000.0
Species	Rabbit
Notes (dermal LD₅₀)	LD ₅₀ >5000 mg/kg, Dermal, Rabbit
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Conclusive data but not sufficient for classification.
Animal data	No information available.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	May cause temporary eye irritation.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	There is no evidence that the material can lead to respiratory hypersensitivity.
<u>Skin sensitisation</u>	
Skin sensitisation	Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	No information available.
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No information available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	May be fatal if swallowed and enters airways.
<u>Inhalation</u>	
Inhalation	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.

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Ingestion	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.
Skin contact	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.
Eye contact	May cause temporary eye irritation.

FATTY ALCOHOL SURFACTANT

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >300-<=2000 mg/kg, ,

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, ,

Skin corrosion/irritation

Animal data No information available.

Serious eye damage/irritation

Serious eye damage/irritation No information available.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

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 No information available.

Inhalation Absorption through the lungs can occur causing symptoms similar to those of ingestion

Ingestion May cause chemical burns in mouth and throat. Irritating. May cause nausea, stomach pain and vomiting.

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Skin contact	Causes mild skin irritation.
Eye contact	There may be severe pain. The eyes may water profusely. Corneal burns may occur. May cause permanent damage

SECTION 12: Ecological information

Ecological information on ingredients.

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

Ecological information on ingredients.

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Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: > 1000 mg/l, Oncorhynchus mykiss (Rainbow trout) LC ₅₀ , 96 hours: > 1000 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: > 1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 20 ppm mg/l, Algae
<u>Chronic aquatic toxicity</u>	
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

FATTY ALCOHOL SURFACTANT

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	EC ₅₀ , 48 hours: 1-10 mg/l, Algae LC ₅₀ , 96 hours: 1-10 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1-10 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

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

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FATTY ALCOHOL SURFACTANT

Persistence and degradability Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

KEROSENE ODOURLESS

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

FATTY ALCOHOL SURFACTANT

Bioaccumulative potential No potential for bioaccumulation.

12.4. Mobility in soil

Ecological information on ingredients.

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

FATTY ALCOHOL SURFACTANT

Mobility Soluble in water. Absorbs on soil

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.

KEROSENE ODOURLESS

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

FATTY ALCOHOL SURFACTANT

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

12.6. Other adverse effects

Other adverse effects Not available.

Ecological information on ingredients.

KEROSENE ODOURLESS

Other adverse effects Not determined.

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FATTY ALCOHOL SURFACTANT

Other adverse effects No data available

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

UN No. (ADR/RID)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993
UN No. (ADN)	1993

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	FLAMMABLE LIQUID, N.O.S. (CONTAINS HYDROCARBONS, C9, AROMATICS)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (CONTAINS HYDROCARBONS, C9, AROMATICS)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (CONTAINS HYDROCARBONS, C9, AROMATICS)
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S. (CONTAINS HYDROCARBONS, C9, AROMATICS)

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

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Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 3

Emergency Action Code •3Y

Hazard Identification Number 30
(ADR/RID)

Tunnel restriction code (D/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.

Key literature references and sources for data 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, <http://echa.europa.eu/>

Revision date 25/06/2020

SDS number 21580

Hazard statements in full H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Signature Auguste Little