

QUICK START ENGINE STARTER

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade Name: Quick Start Engine Starter

ref: SGES1

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

Identified Use(s) Starting Fluid
Uses Advised Against None

1.3. Details of the supplier of the safety data sheet

Company Identification Silverhook Ltd.
Unit 14 Bates Road,
Harold Wood, London, England
RM3 0JH
Tel.: +44 (0) 1708330500
Fax.: +44 (0) 1708330504
Email: 522@silverhook.co.uk
Responsible person email: 522@silverhook.co.uk

1.4 Emergency telephone number

+44(0)1708330500 (during office hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Flam. Gas 1; Liquefied gas; Skin Irrit. 2 ; Carc. 2; Repr. 2; STOT SE 3

2.2. Label elements



Hazard Symbol

Signal word(s)

DANGER

Hazard Statement(s)

Extremely flammable gas.
Contains gas under pressure; may explode if heated.
Causes skin irritation.
Suspected of causing cancer.
Suspected of damaging the unborn child.
May cause drowsiness or dizziness.
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.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands and exposed skin after use.
Use only outdoors or in a well-ventilated area.
Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F.
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Precautionary Statement(s)

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Eliminate all ignition sources if safe to do so.

Other hazards

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Diethyl Ether	55 - 65	60-29-7	Flam. Liq. 1; H224 Acute Tox. 4; H302 STOT SE 3; H336
Naptha (petroleum) hydrotreated light	20 - 30	64742-49-0	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Acute 2; H401 Aquatic Chronic 2; H11
Carbon Dioxide	10 - 15	124-38-9	Compressed dissolved gas; H280
Ethanol	<5	64-17-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319
Chloroethane	< 2	75-00-3	Flam. Gas 1; H220 Carc. 2; H351
Petroleum Distillate	< 1	Mixture	Asp. Tox. 1; H304
Toluene	< 0.5	108-88-3	Flam. Liq. 2; H225 Repr. 2; H361 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304 STOT SE 3; H336 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412

Additional Information – None

* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation	Move person to fresh air. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.
Skin Contact	Wash affected skin with soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Take off contaminated clothing and wash it before reuse.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get immediate medical attention. May cause drowsiness or dizziness.

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

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

-Suitable Extinguishing Media

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Keep containers cool by spraying with water if exposed to fire.

-Unsuitable Extinguishing Media

Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Contains gas under pressure; may explode if heated.

5.3. Advice for fire-fighters

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate sources of ignition. Avoid contact with skin and eyes. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing gas / vapours.

6.2. Environmental precautions

Prevent liquid entering sewers, basements and work pits. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Collect spillage. Transfer to a container for disposal or recovery.

6.4. Reference to other sections

None

Additional Information

None

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin and eyes. Avoid breathing gas / vapours. Use product in a well-ventilated area only.

7.2. Conditions for safe storage, including any incompatibilities

-Storage temperature

Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Keep container tightly closed. Store locked up.

-Incompatible materials

This product should be stored away from sources of strong heat or oxidizing chemicals.

7.3. Specific end use(s)

Starting Fluid

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Alkanes (C5-C6)	-----	500 ppm**	1500 mg/m ³	-----	-----	**n-heptane
Diethyl ether	60-29-7	400 ppm	400 ppm	-----	500 ppm	-----
Chloroethane	75-00-3	1000 ppm	100 ppm*	-----	-----	*A3
Carbon dioxide	124-38-9	5000 ppm	5000 ppm	-----	30,000 ppm	-----
Toluene	108-88-3	200 ppm	20 ppm	300 ppm*	-----	*10-min. Ceiling

#Assure minimum oxygen content of work atmosphere. *A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans

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Recommended monitoring method

NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C); NIOSH 1610 (Ethyl ether); NIOSH 2519 (Ethyl chloride); NIOSH 1501 (Aromatic hydrocarbons)

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Wear suitable gloves if prolonged skin contact is likely. Check with

Respiratory protection



protective equipment manufacturer's data.

Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Gas under pressure

Color

Colorless

Odor

Sweetish, Hydrocarbon-like

Odor Threshold (ppm)

Not available

pH (Value)

Not available

Melting Point (°C) / Freezing Point (°C)

Not available

Boiling point/boiling range (°C):

34 - 35 (Diethylether)

Flash Point (°C)

-45 (Diethylether)

Evaporation Rate

Not available

Flammability (solid, gas)

Extremely flammable

Explosive Limit Ranges

1.85% - 36.5% v/v (Diethylether)

Vapor pressure (Pascal)

7.16×10^4 (Diethylether)

Vapor Density (Air=1)

Not available

Density (g/ml)

Not available

Solubility (Water)

Not available

Solubility (Other)

Not available

Partition Coefficient (n-Octanol/water)

Not available

Auto Ignition Point (°C)

175 (Diethylether)

Decomposition Temperature (°C)

Not available

Kinematic Viscosity (cSt)

Not available

Explosive properties

Not available

Oxidizing properties

Not available

9.2 Other information

Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable.

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10.3. Possibility of hazardous reactions

None anticipated.

10.4. Conditions to avoid

Avoid contact with heat and ignition sources.

10.5. Incompatible materials

This product should be stored away from sources of strong heat or oxidizing chemicals.

10.6. Hazardous decomposition product(s)

Carbon monoxide, Carbon dioxide, Acrid smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

11.1. Information on toxicological effects

Diethyl Ether (CAS# 60-29-7):

Acute toxicity

Oral: LD50 = 1600 mg/kg-bw (rat)
Dermal: LD50 >20000 mg/kg-bw (rabbit)
May cause drowsiness or dizziness.

Irritation/Corrosivity

Non-irritant to skin and eye.

Sensitisation

It is not a skin sensitiser.

Repeated dose toxicity

Not to be expected.

Carcinogenicity

Not to be expected.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity

Not to be expected.

Toxicity for reproduction

Not to be expected.

Toluene (CAS#108-88-3):

Acute toxicity

Oral LD50 = 5580 mg/kg (rat)
Dermal LD50 >5000 mg/kg (rabbit)
Inhalation LC50 (4 hour(s)) 28.1 mg/l (rat) - Vapours may cause drowsiness and dizziness.

Irritation / Corrosivity

Causes serious eye irritation. Causes skin irritation.

Sensitisation

It is not a skin sensitiser.

Repeated dose toxicity

Inhalation NOAEC = 1131 mg/m³ (rat), 2 Year(s) - May cause damage to organs through prolonged or repeated exposure: neuropsychological effects, auditory dysfunction and effects on colour vision.

Carcinogenicity

It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity

There is no evidence of mutagenic potential.

Reproductive toxicity

Suspected of damaging the unborn child. NOAEC: 2.8 mg/liter (rat)

Chloroethane (CAS# 75-00-3)

Carcinogenicity

NTP	IARC	ACGIH	OSHA	NIOSH
Clear Evidence in Female Mice	No.	A3 - Confirmed Animal Carcinogen	No.	Yes.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Short term
Long Term

Not available.
Not available.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

	Road	Sea (IMDG)	Air (ICAO/IATA)
UN number	1954	1954	1954
Proper Shipping Name	Compressed gas, flammable, n.o.s. (contains diethyl ether and carbon dioxide)	Compressed gas, flammable, n.o.s. (contains diethyl ether and carbon dioxide)	Compressed gas, flammable, n.o.s. (contains diethyl ether and carbon dioxide)
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Diethylether	60-29-7	~58	100
Chloroethane	75-00-3	< 2	1000
Toluene	108-88-3	< 1	1000

SARA 311/312 - Hazard Categories:

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Chloroethane	75-00-3	< 2
Toluene	108-88-3	< 1

SARA 302 - Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
Toluene	108-88-3	Developmental, Female Reproductive
Chloroethane	45-00-3	Cancer

15.2 Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: August 10, 2020

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Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H220: Extremely flammable gas.
- H224: Extremely flammable liquid and vapour.
- H225: Highly flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H351: Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.
- H412: Harmful to aquatic life with long lasting effects.

Training advice: None.

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