SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name Mixture
CAS No. Mixture

Trade Name QUICK START ENGINE STARTER

Product Code SGES1

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

Identified Use(s)Starting FluidUses Advised AgainstNone

Company Identification Silverhook Ltd.

Bates Road, Harold Wood

RM3 0JH. UK

Telephone +44 (0)1708330500 Fax +44 (0)1708330504 E-Mail 333@silverhook.co.uk

Emergency telephone number

Emergency Phone No. +44(0)1708330500 (usual office hours)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Label elements

Hazard Symbol

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



Signal word(s)

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.

Precautionary Statement(s) 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.

Eliminate all ignition sources if safe to do so.

Other hazards

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

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
			Flam. Liq. 1; H224
Diethyl Ether	55 - 65	60-29-7	Acute Tox. 4; H302
			STOT SE 3; H336
			Flam. Liq. 2; H225
			Skin Irrit. 2; H315
Naptha (petroleum) hydrotreated light	20 - 30	64742-49-0	Asp. Tox. 1; H304
Trapina (ponoroam) nyaronoatoa ngin		0.1.12.100	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
Ethanol	\ 3	04-17-5	Eye Irrit. 2; H319
Chloroethane	< 2	75-00-3	Flam. Gas 1; H220
Chioroethane	\ Z	75-00-5	Carc. 2; H351
Petroleum Distillate	< 1	Mixture	Asp. Tox. 1; H304
			Flam. Liq. 2; H225
			Repr. 2; H361
			Skin Irrit. 2; H315
			Eye Irrit. 2; H319
Toluene	< 0.5	108-88-3	Asp. Tox. 1; H304
			STOT SE 3; H336
			STOT RE 2; H373
			Aquatic Acute 2; H401
			Aquatic Chronic 3; H412

Additional Information - None

special treatment needed

SECTION 4: FIRST AID MEASURES

Description of first aid measures	
Inhalation	Move person to fresh air. If breathing is labored, administer oxygen. I 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.
Most important symptoms and effects, both acute and delayed	May cause drowsiness or dizziness.
Indication of any immediate medical attention and	IF SWALLOWED: Immediately call a POISON CENTER or

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doctor/physician.

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

SECTION 5: FIRE-FIGHTING MEASURES

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.

Special hazards arising from the substance or

mixture

Contains gas under pressure; may explode if heated.

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

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.

Environmental precautions Prevent liquid entering sewers, basements and work pits. Avoid

release to the environment.

Methods and material for containment and cleaning up Cover spills with inert absorbent material. Collect spillage.Transfer to a

container for disposal or recovery.

Reference to other sections None
Additional Information None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handlingKeep 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.

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.

Specific end use(s) Starting Fluid

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

		(8hr TWA)		(STI		
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
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

Recommended monitoring method NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C); NIOSH 1610 (Ethyl

ether); NIOSH 2519 (Ethyl chloride); NIOSH 1501 (Aromatic

hydrocarbons)

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

protective equipment manufacturer's data.

Respiratory protection 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

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)

Boiling point/boiling range (°C):

Flash Point (°C)

Evaporation Rate

Not available

34 - 35 (Diethylether)

-45 (Diethylether)

Not available

Flammability (solid, gas) Extremely flammable

Explosive Limit Ranges 1.85% - 36.5% v/v (Diethylether)

Vapor pressure (Pascal) 7.16 x 10⁴ (Diethylether)

Vapor Density (Air=1)

Density (g/ml)

Solubility (Water)

Not available

Not available

Not available

Solubility (Other)

Not available

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Not available

175 (Diethylether)

Decomposition Temperature (°C)

Kinematic Viscosity (cSt)

Explosive properties

Not available

Not available

Not available

Not available

Other information Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions None anticipated.

Conditions to avoid Avoid contact with heat and ignition sources.

Incompatible materials This product should be stored away from sources of strong heat or

oxidizing chemicals.

Hazardous decomposition product(s)

Carbon monoxide, Carbon dioxide, Acrid smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

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.

MutagenicityNot to be expected.Toxicity for reproductionNot 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 Not available.
Long Term Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

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

Sea (IMDG) Road Air (ICAO/IATA) **UN** number 1954 1954 1954 **Proper Shipping Name** Compressed gas, flammable, Compressed gas, flammable, Compressed gas, flammable, n.o.s. (contains diethyl ether n.o.s. (contains diethyl ether n.o.s. (contains diethyl ether and carbon dioxide) and carbon dioxide) 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

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:

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

SECTION 16: OTHER INFORMATION

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

Date of preparation: August 17, 2015

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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