



[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

## OneShot Diesel First Start

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

#### 1.1 Product identifier

**Product name:** OneShot Diesel First Start

**Product code:** OS1969FS

**Product description:** Liquid fuel additive for diesel or gas oil.

**CAS No.:** Not applicable.

**EC No.:** Not applicable.

**Index No.:** Not applicable.

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

**Identified use(s):** Liquid fuel additive for diesel or gas oil.

**Uses advised against:** Follow supplier's recommendations on correct use of the product.

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

**Manufacturer/Supplier:** Sirius Marine Services Ltd.  
Redstone Wharf  
Sandy Lane Industrial Estate  
Stourport on Severn  
Worcestershire  
DY13 9QB  
United Kingdom

**Telephone:** 01299 871 048

**E-mail:** [info@siriusmarine.co.uk](mailto:info@siriusmarine.co.uk)

**Website:** [www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

#### 1.4 Emergency telephone number

**In case of emergency, call:** 07990 848 868 (24 hours, 7 days)



[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

## SECTION 2: Hazard Identification

### 2.1 Classification of the substance or mixture

#### 2.1.1. Classification according to Regulation (EC) No. 1272/2008 (CLP)

Acute Tox. 4; H302  
Acute Tox. 4; H312  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Acute Tox. 4; H332  
Aquatic Chronic 2; H411  
EUH066

#### 2.1.2. Classification according to Directive 67/548/EEC & Directive 1999/45/EC

Harmful; Xn; R20/21/22  
Irritant; Xi; R36/38  
Dangerous for the environment; N; R51/53  
R66

### 2.2 Label elements

#### 2.2.1. Label according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictogram(s):



Signal Word:

Warning.

Hazard Statement(s):

H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

P271: Use only outdoors or in a well-ventilated area.



[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

# Safety Data Sheet

## According to Regulation (EC) No. 1907/2006 (REACH)

P280: Wear protective gloves / protective clothing / eye protection / face protection.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P501: Dispose of contents/container to: disposal should be in accordance with local, state or national legislation.

**Supplemental Hazard information (EU):** EUH066: Repeated exposure may cause skin dryness or cracking.

### 2.2.2. Label according to Directive 67/548/EEC or Directive 1999/45/EC

**Hazard symbol(s):**



**Indication(s) of danger:**

Harmful; Dangerous for the Environment.

**Risk phrase(s):**

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R36/38: Irritating to eyes and skin.

R66: Repeated exposure may cause skin dryness or cracking.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrase(s):**

S1/2: Keep locked up and out of the reach of children.

S23: Do not breathe fumes/vapour.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29: Do not empty into drains.

S35: This material and its container must be disposed of in a safe way.



[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

S36: Wear suitable protective clothing.  
S39: Wear eye/face protection.  
S51: Use only in well-ventilated areas.  
S61: Avoid release to the environment. Refer to special instructions/Safety Data Sheets.

## 2.3 Other hazards

None known.

## SECTION 3: Composition

### 3.2 Mixtures

#### Classification according to Regulation (EC) No. 1272/2008 (CLP)

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification
2-Ethylhexyl nitrate	40-50	27247-96-7	248-363-6	-	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Aquatic Chronic 2; H411 EUH044 EUH066
Solvent naphtha (petroleum), light arom.	10-20	64742-95-6	265-199-0	649-356-00-4	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411
2-Ethylhexan-1-ol	5-10	104-76-7	203-234-3	-	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335
Butanedioic acid, polyisobutenyl	5-10	68610-89-9	-	-	Eye Irrit. 2; H319

#### Classification according to Directive 67/548/EEC

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification
2-Ethylhexyl nitrate	40-50	27247-96-7	248-363-6	-	Xn; R20/21/22 N; R51/53 R44 R66



# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification
Solvent naphtha (petroleum), light arom.	10-20	64742-95-6	265-199-0	649-356-00-4	R10 Xi; R38 Xn; R65 N; R51/53 R67
2-Ethylhexan-1-ol	5-10	104-76-7	203-234-3	-	Xn; R20 Xi; R36/37/38
Butanedioic acid, polyisobutenyl	5-10	68610-89-9	-	-	Xi; R36

See Section 16 for full description of R phrases and H statements.

## SECTION 4: First Aid Measures

### 4.1 Description of first aid measures

#### INHALATION:

Obtain immediate medical attention. Remove patient from exposure, keep warm and at rest.

#### SKIN CONTACT:

Remove contaminated clothing immediately. Rinse affected area with copious amounts of water. Then wash area with soap and water for at least 15 minutes. If symptoms persist, obtain medical attention. Discard or wash thoroughly contaminated clothing.

#### EYE CONTACT:

Remove contact lenses if present and easy to do. Wash eyes immediately with plenty of water for at least 15 minutes. If symptoms persist, obtain medical attention.

#### INGESTION:

Obtain immediate medical attention. Provided the patient is conscious wash mouth out with water and provide patient with 200-300 ml of water to drink. Do not induce vomiting.

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

Skin contact causes redness and pain. Repeated exposure may cause skin dryness or cracking. Eye contact causes watering, redness and pain. Inhalation of high concentrations of vapour may cause irritation to the respiratory tract. Ingestion may cause irritation to mouth, throat and digestive tract.



[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

## 4.3 Indication of any immediate medical attention and special treatments needed:

In case of accident or if you feel unwell, seek medical advice immediately. If in contact with eyes, wash eyes immediately and seek immediate medical attention.

## SECTION 5: Fire-fighting Measures

### 5.1 Extinguishing Media

**Suitable extinguishing media:** Foam, CO<sub>2</sub> or dry powder.  
For large fires, use water.

**Unsuitable extinguishing media:** Do not use water jet.

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

Combustible liquid and vapour. Vapour may form explosive mixture with air.

Combustion may liberate toxic fumes: Carbon monoxide, carbon dioxide, various hydrocarbons and nitrogen oxides.

### 5.3 Advice for fire-fighters

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep fire exposed containers cool by spraying with water. Do not allow to enter drains, sewers or watercourses.

Flash point: 67-80°C (closed cup).

## SECTION 6: Accidental Release Measures

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

#### 6.1.1 For non-emergency personnel

Eliminate sources of ignition. Ensure adequate ventilation. Avoid inhalation of fumes/vapour. Avoid contact with skin and eyes. Wear suitable personal protective equipment. Wear appropriate respirator when ventilation is inadequate. (See section 8).

#### 6.1.2 For emergency responders

Keep unnecessary personnel away. Wear suitable protective clothing (See Section 8). Contaminated clothing should be thoroughly cleaned.



# **Safety Data Sheet**

## **According to Regulation (EC) No. 1907/2006 (REACH)**

[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

### **6.2 Environmental precautions**

Collect spillage. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

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

#### **6.3.1 For containment**

Stop the leak if it is safe to do so. Contain the spillage with sand, earth or any suitable adsorbent material.

#### **6.3.2 For cleaning up**

Use sand, earth or any suitable non-combustible adsorbent material to adsorb spillages. Using non-sparking tools transfer the contaminated adsorbent material into a container for disposal. The containers used should be plastic-lined sealable drums. Containers should be sealed before being disposed of via an authorised waste disposal contractor.

#### **6.3.3 Other advice**

None.

### **6.4 Reference to other sections**

See Section 8 for personal protective equipment. See Section 13 for waste disposal.

## **SECTION 7: Handling and Storage**

### **7.1 Precautions for safe handling**

Provide adequate ventilation, including local extraction, to minimise exposure. Avoid breathing fumes/vapour. Avoid contact with skin and eyes. Wear suitable personal protective equipment (See Section 8).

Do not eat, drink or smoke when using this product. Wash exposed skin after use. Contaminated work clothing should not be allowed out of the workplace. Contaminated clothing should be thoroughly cleaned or disposed of as hazardous waste.

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

Keep away from heat and sources of ignition. Keep from direct sunlight. Store only in the original container. Store in a cool, well ventilated place. Maximum handling temperature: 50°C. Empty containers retain product residue and can be hazardous.

Keep away from oxidising agents.



# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

## 7.3 Specific end uses(s)

Liquid fuel additive for diesel or gas oil.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

No occupational exposure limits assigned.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Provide adequate ventilation, including local extraction, to minimise exposure.

#### 8.2.2 Personal protection

**Eye protection:** Goggles giving complete protection to eyes. (EN 166)

**Skin protection:**

**Hand protection:** Chemical resistant gloves. (EN 374).

**Other:** Long sleeve protective clothing. Plastic apron. Rubber boots.

**Respiratory protection:** In the case of insufficient ventilation, wear suitable respiratory equipment. (BS EN 14387:2004+A1)

**Thermal hazards:** Wear suitable temperature resistant gloves and protective clothing if the product is heated.

#### 8.2.3 Environmental exposure controls

Inform environmental manager of all incidents involving this product.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

**Appearance:** Amber-red liquid.

**Odour:** Hydrocarbon.

**Odour threshold:** Not available.

**pH:** Not applicable.

**Melting/freezing point::** Not available.





[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

<b>Initial boiling point and boiling range:</b>	Not available.
<b>Flash point:</b>	67-80°C (Closed cup)
<b>Evaporation rate:</b>	Not available.
<b>Flammability (solid; gas):</b>	Not applicable.
<b>Upper/lower flammability or explosive limits:</b>	Not available.
<b>Vapour pressure:</b>	Not available.
<b>Vapour density:</b>	Not available.
<b>Relative density:</b>	0.89 - 1 (Water = 1)
<b>Solubility(ies):</b>	Immiscible in water. Miscible in aromatic solvents.
<b>Partition coefficient: n-octanol/water:</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.
<b>Viscosity:</b>	<10 cSt (40°C) (Kinematic)
<b>Explosive properties:</b>	Not explosive. Vapour may form explosive mixture with air.
<b>Oxidising properties:</b>	Not oxidising.

## 9.2 Other information

None.

## SECTION 10: Stability and Reactivity

<b>10.1 Reactivity</b>	Reacts with oxidising agents.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	No hazardous reactions expected during normal use.
<b>10.4 Conditions to avoid</b>	Keep away from sources of ignition, hot surfaces and direct sunlight. Contact with incompatible materials.
<b>10.5 Incompatible materials</b>	Oxidising agents.
<b>10.6 Hazardous decomposition products</b>	Combustion may liberate toxic fumes: Carbon monoxide, carbon dioxide, various hydrocarbons and nitrogen oxides.



[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

<b>Acute toxicity</b>	Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.  No data available on the mixture.
<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b>Skin sensitisation</b>	No evidence of skin sensitisation.
<b>Respiratory sensitisation</b>	No evidence of respiratory sensitisation.
<b>Germ cell mutagenicity</b>	No evidence of mutagenicity.
<b>Carcinogenicity</b>	No evidence of carcinogenicity.
<b>Reproductive toxicity</b>	No evidence of reproductive toxicity.
<b>Specific Target Organ Toxicity – single exposure</b>	Inhalation of high concentrations of vapour may cause irritation to the respiratory tract.
<b>Specific Target Organ Toxicity – repeated exposure</b>	Based on the available data, the classification criteria are not met.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways. Risk of aspiration into lungs resulting in chemical pneumonia.

### Information on likely routes of exposure

<b>Inhalation</b>	Harmful by inhalation. Inhalation of high concentrations of vapour may cause irritation to the respiratory tract.
<b>Skin contact</b>	Harmful in contact with skin. Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Harmful if swallowed. Ingestion may cause irritation to mouth, throat and digestive tract. May be fatal if swallowed and enters airways. Risk of aspiration into lungs resulting in chemical pneumonia.



[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Skin contact causes redness and pain. Eye contact causes watering, redness and pain. Inhalation of high concentrations of vapour may cause irritation to the respiratory tract. Ingestion may cause irritation to mouth, throat and digestive tract. If swallowed, aspiration into lungs may result in chemical pneumonia.
<b>Mixture versus substance information</b>	No data available.
<b>Other information</b>	None.

## SECTION 12: Ecological Information

<b>12.1 Toxicity</b>	Toxic to aquatic life with long lasting effects.  M factor: 1
<b>12.2 Persistence and degradability</b>	No data available.
<b>12.3 Bioaccumulative potential</b>	No data available.
<b>12.4 Mobility in soil</b>	No data available.
<b>12.5 Results of PBT and vPvB assessment</b>	The product does not contain substances assessed to be PBT or vPvB.
<b>12.6 Other adverse effects</b>	None known.

## SECTION 13: Disposal Considerations

### 13.1 Waste treatment methods

To be disposed of as hazardous waste. Disposal should be in accordance with local, state or national legislation.

Contaminated adsorbent must be removed in sealed, plastic lined drums and disposed of via an authorised waste disposal contractor. Do not empty into drains; dispose of this material and its container in a safe way.

## SECTION 14: Transport Information

### ADR

<b>14.1 UN Number</b>	3082
<b>14.2 UN Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-ethylhexyl nitrate)



# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

---

14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental hazards	Yes
14.6	Special precautions for the user	Read SDS and supplier instructions on correct use of the product.

## ADN

14.1	UN Number	3082
14.2	UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-ethylhexyl nitrate)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental hazards	Yes
14.6	Special precautions for the user	Read SDS and supplier instructions on correct use of the product.

## RID

14.1	UN Number	3082
14.2	UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-ethylhexyl nitrate)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental hazards	Yes
14.6	Special precautions for the user	Read SDS and supplier instructions on correct use of the product.

## IATA/ICAO

14.1	UN Number	3082
14.2	UN Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (contains 2-ethylhexyl nitrate)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental hazards	Yes
14.6	Special precautions for the user	Read SDS and supplier instructions on correct use of the product.

## IMDG

14.1	UN Number	3082
14.2	UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-ethylhexyl nitrate)



# Safety Data Sheet

## According to Regulation (EC) No. 1907/2006 (REACH)

[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental hazards	Marine pollutant.
14.6	Special precautions for the user	Read SDS and supplier instructions on correct use of the product.
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	The product is not intended to be transported in bulk.

### SECTION 15: Regulatory Information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006 as amended. The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC.
15.2	Chemical Safety Assessment	Not applicable.

### SECTION 16: Other Information

#### Full text of relevant R-phrases and/or H-statements:

<b>Hazard Statement(s):</b>	H226: Flammable liquid and vapour. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin. H315: Causes skin irritation. H319: Causes eye irritation. H332: Harmful if inhaled. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long lasting effects.
<b>Supplemental Hazard information (EU):</b>	EUH044: Risk of explosion if heated under confinement. EUH066: Repeated exposure may cause skin dryness or cracking.
<b>Risk phrase(s):</b>	R10: Flammable. R20: Harmful by inhalation. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.



[www.siriusmarine.co.uk](http://www.siriusmarine.co.uk)

# Safety Data Sheet

## According to Regulation (EC) No. 1907/2006 (REACH)

R36: Irritating to eyes.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R38: Irritating to skin.  
R44: Risk of explosion if heated under confinement.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65: Harmful: may cause lung damage if swallowed.  
R66: Repeated exposure may cause skin dryness or cracking.  
R67: Vapours may cause drowsiness and dizziness.

### Abbreviations:

CAS: Chemical Abstracts Service;  
EINECS: European Inventory of Existing Commercial Chemical Substances  
PBT: Persistent, Bioaccumulative and Toxic.  
vPvB: Very Persistent and Very Bioaccumulative.

### References:

Supplier's Safety Data Sheets for ingredients  
Product formulation  
Approved Classification and Labelling Guide (Sixth edition)  
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009  
Regulation (EC) No. 1272/2008 of the European Parliament and of the council.  
EH40/2005, 2<sup>nd</sup> Ed., 2011.

### Disclaimer:

THE INFORMATION PRESENTED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM, IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

### Version history:

<b>Version:</b>	2.0
<b>Issue date:</b>	05/02/2013
<b>Previous Version:</b>	1.0
<b>Issue date of previous version:</b>	25/01/2012
<b>Sections changed from previous version:</b>	1-16