

SAFETY DATA SHEET

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Sirius

Revision 3
Revision date 20-Aug-2009

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name	Sirius
Company	Orion Future Technology Ltd Henwood House, Henwood, Ashford, Kent, TN24 8DH info@orionft.com
Telephone	Tel:+44 (0) 779 284 3398
Product code	qafs474a

2 HAZARDS IDENTIFICATION.

Main hazards	Flammable Harmful by inhalation. Irritating to respiratory system. Risk of serious damage to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Polyether-modified polysiloxane	1-10%	134180-76-0		Xn;R20 Xn;R21 Xi;R38 Xi;R41 N;R51/53
Ethyl alcohol (Ethanol)	0.5-1%	64-17-5	200-578-6	F; R11
Tetraethyl silicate	70-80%	78-10-4	201-083-8	R10 Xn; R20 Xi; R36/37
Alkyloxypropylethyleneoxyethanol	10-20%	68131-40-8		Xn; R22 Xi; R41

Product Description & Uses	A liquid fertiliser.
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Product Shelf Life	Recommended shelf life 3 years from date of delivery .
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4. FIRST AID MEASURES

Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention. Risk of serious damage to eyes.
Inhalation	Move the exposed person to fresh air. Seek medical attention.
Ingestion	Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Drink 1 to 2 glasses of water.
General information	If you feel unwell, seek medical advice (show the label where possible). Wash all contaminated clothing before reuse.

5. FIRE FIGHTING MEASURES

Extinguishing media	Use extinguishing media appropriate to the surrounding fire conditions.
Fire hazards	Burning produces irritating, toxic and obnoxious fumes.
Protective equipment	Wear suitable respiratory equipment when necessary.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective equipment.
Environmental precautions	Do not allow product to enter drains. Advise local authorities if large spills cannot be contained.
Clean up methods	For large spills: Absorb with inert, absorbent material. Transfer to suitable, labelled container. Clean spillage area thoroughly with plenty of water. For small spills: Flush down the drain with plenty of water.

7. HANDLING AND STORAGE

Handling	Wear suitable protective equipment. Avoid contact with eyes and skin.
Storage	Keep out of the reach of children. Store in correctly labelled containers. Store in original container. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Ethyl alcohol (Ethanol)	WEL 8-hr limit ppm: 1000 WEL 15 min limit ppm: -	WEL 8-hr limit mg/m ³ : 1920 WEL 15 min limit mg/m ³ : -
Respiratory protection	Wear suitable respiratory equipment when necessary.	
Hand protection	Chemical resistant gloves (plastic)	
Eye protection	Avoid contact with eyes. Provide eye wash station. Approved safety goggles.	
Protective equipment	Avoid contact with eyes and skin. Wash all contaminated clothing before reuse. Adopt best Manual Handling considerations when handling, carrying and dispensing.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	Clear.
Odour	Slight.
pH	n/a
Flash point	35°C
Flammability limits	Flammable
Relative density	0.960 - 0.980
Viscosity	Kinematic Viscosity in 10-6 m ² /s at 40°C (ISO 3219) - < 50 cps

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	Strong oxidising agents. Strong acids.
Hazardous decomposition products	Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system.
Corrosivity	May cause irritation to skin. Irritating to skin.
Repeated or prolonged exposure	Prolonged or repeated exposure may cause irritation to skin and mucous membranes.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data is available on this product.
Degradability	More than 90% biodegradable.

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13. DISPOSAL CONSIDERATIONS

General information	Dispose of as special waste in compliance with local and national regulations.
Disposal methods	Dispose of in compliance with all local and national regulations.
Disposal of packaging	Empty containers can be cleaned with water. Empty containers can be sent for disposal or recycling.

14. TRANSPORT INFORMATION

ADR/RID

UN 1993	Packing group III
Class 3	Hazard ID 30
Proper Shipping FLAMMABLE LIQUID, N.O.S.	
Name (Tetraethoxysilane).	

IMDG

UN 1993	Packing group III
Class 3	Marine pollutant
EmS Code F-E S-E	

IATA

UN 1993	Packing group III
Class 3	Subsidiary risk -
Packing Instruction 310 (Cargo)	Maximum quantity 220 L
Packing Instruction 309 (Passenger)	Maximum quantity 60 L

15. REGULATORY INFORMATION

Symbols	Xn - Harmful
	

Risk phrases

R10 - Flammable.
R20 - Harmful by inhalation.
R37 - Irritating to respiratory system.
R41 - Risk of serious damage to eyes.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S2 - Keep out of the reach of children.
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.
S27/28 - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

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16. OTHER INFORMATION

Text of risk phrases in Section 3.	R10 - Flammable. R11 - Highly flammable. R20 - Harmful by inhalation. R21 - Harmful in contact with skin. R22 - Harmful if swallowed. R36/37 - Irritating to eyes and respiratory system. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Further information	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
Revision	This document differs from the previous version in the following areas: 2 - product Description & Uses.
Labelling for contents	Non-ionic surfactants. >= 15% - < 30%