

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

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

1	1	Product identifier	
		Product identifier	

Product Name Lithium Iron Phosphate (LiFePO4) Powder Synonyms LFP, LFPO Chemical Name Lithium Iron Phosphate **Chemical Formula** LiFePO4 CAS No. 15365-14-7 EC No. Not available. Index No. Not available. REACH Registration No. Not applicable. 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) PC21 Laboratory chemicals, Research and development use only

1.3 Details of the supplier of the safety	/ data sheet
Company Identification	Ossila Limited
Address of Supplier	Solpro Business Park
	Windsor Street
	Sheffield
Postal code	S4 7WB, UK
Telephone:	+441142999180
E-mail	info@ossila.com
Office hours	08:00 - 17:00
1.4 Emergency telephone number	
Emergency Phone #	+44 (0) 20 3885 0382 (CHEMTREC)

Other Regions	Emergency Phone Number (CHEMTREC)
Europe, Middle East, Africa	+44 20 3885 0382
North America	+1 703 527 3887
Central America	+52 55 8526 4930
South America	+55 11 4349 1359
Asia, India, and Oceania	+65 3163 8374

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

2.4 Additional Information

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

No components need to be disclosed according to the applicable regulations. 3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures			
General Advice	First aiders should ensure they have taken adequate steps to protect themselves		
	from exposure (see Section 8 for recommended personal protection equipment)		
	Show this safety data sheet to the doctor in attendance.		
Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.		
Skin Contact	Rinse skin with water. If skin irritation occurs, get medical advice/attention.		
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Ingestion	Rinse out mouth with water. Get medical advice/attention if you feel unwell.		
4.2 Most important symptoms and effects, both acute and delayed			
. , ,	Most important symptoms and effects, both acute and delayed, are included on		
	labelling (Section 2.2) and in Section 11.		
4.3 Indication of any immediate medic	al attention and special treatment needed		

Treat symptomatically.



SECTION 5: FIREFIGHTING MEASURES			
 5.1 Extinguishing media Suitable Extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising from the second second	As appropriate for surrounding fire. As appropriate for surrounding fire. substance or mixture Lithium oxides Iron oxides Oxides of phosphorus		
5.3 Advice for firefighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus.		
SECTION 6: ACCIDENTAL RELEASE M	IEASURES		
6.1 Personal precautions, protective e6.2 Environmental precautions	equipment and emergency procedures Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.		
0.2 Environmental precautions	Avoid release to the environment.		
6.3 Methods and material for contain			
6.4 Reference to other sections	Sweep up spilled substance but avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.		
	See Also Section 8, 13.		
SECTION 7: HANDLING AND STORAG	E		
7.1 Precautions for safe handling			
Advice on safe handling	Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well- ventilated area. Wear protective clothing as per section 8.		
Hygiene measures	Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.		
7.2 Conditions for safe storage, including any incompatibilities Store in a well-ventilated place. Keep container tightly closed.			
Storage temperature			
Storage life	Stable under normal conditions.		
Incompatible materials 7.3 Specific end use(s)	None known.		
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated		

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

UK - EH40 Workplace Exposure Limits (WEL).

Occupational Exposure Limits LTEL (8 hr LTEL (8 hr TWA STEL (ppm) SUBSTANCE. CAS No. STEL (mg/m³) Note TWA ppm) mg/m³) Iron salts (as Fe) 15365-14-7 2

Region EU

Source EU Occupational Exposure Limits United Kingdom UK Workplace Exposure Limits EH40/2005 (Third edition, published 2018)

8.2 Exposure controls

Ensure adequate ventilation and/or exhaust. A washing facility/water for eye and 8.2.1. Appropriate engineering controls skin cleaning purposes should be present. 8.2.2. Personal protection equipment Eye Protection Wear eye protection with side protection tested and approved under appropriate government standards such as EN166 (EU). Hand protection Handle with gloves. Gloves must be inspected prior to use and proper glove removal techniques should be used. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Body protection Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Respiratory protection No personal respiratory protection is necessary under normal circumstances. Thermal hazards None known.

8.2.3. Environmental Exposure Controls Avoid release to the environment.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and	chemical properties
Physical State	Solid: Powder.
Colour	Black.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	960 °C
Initial boiling point and boiling range	Not known.
Flammability	Not known.
Lower and upper explosion limit	Not known.
Flash Point	Not known.
Auto-ignition temperature (°C)	Not known.
Decomposition temperature (°C)	Not known.
pH	Not known.
Kinematic viscosity	Not known.
Solubility(ies)	Solubility (Water): Not known.
	Solubility (Other): Not known.
Partition coefficient: n-octanol/water (log value)	Not known.
Vapour pressure	Not known.
Density	Not known.
Relative density	Not known.
Relative vapour density	Not known.
Particle characteristics	Not known.
9.2 Other information	
	None.

SECTION 10: STABILITY AND REACTIVITY

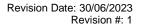
10.6 Hazardous decomposition products		

In the event of fire: see Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological ef		
Acute toxicity - Ingestion	No data available	
Acute toxicity - Skin Contact	No data available	
Acute toxicity - Inhalation	No data available	
Skin corrosion/irritation	No data available	
Serious eye damage/irritation	No data available	
Skin sensitization data	No data available	
Respiratory sensitization data	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	No data available	
Reproductive toxicity	No data available	
Lactation	No data available	
STOT - single exposure	No data available	
STOT - repeated exposure	No data available	
Aspiration hazard	No data available	
11.2 Information on other hazards		
11.2.1 Endocrine disrupting properties		
	None known.	
11.2.2. Information on other hazards		
	None known.	
SECTION 12: ECOLOGICAL INFORM	ATION	

12.1 ToxicityToxicity - Aquatic invertebratesNo data availableToxicity - FishNo data availableToxicity - AlgaeNo data availableToxicity - Sediment CompartmentNo data availableToxicity - Terrestrial CompartmentNo data available





2.2 Persistence and Degradation			
12.3 Bioaccumulative potential	No data available		
12.4 Mobility in soil	No data available		
12.5 Results of PBT and vPvB assessn	No data available		
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
12.6 Endocrine disrupting properties	Not known.		
12.7 Other adverse effects			
SECTION 13: DISPOSAL CONSIDERATI	ONS		
13.1 Waste treatment methods			
	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator.		
13.2 Additional Information	Disposal should be in accordance with local, state or national legislation.		
SECTION 14: TRANSPORT INFORMATION	N		
IATA/IMO/RID/ADR	Not classified as hazardous for transport.		
SECTION 15: REGULATORY INFORMAT	TION		
15.1 Safety, health and environmental European Regulations - Authorisations a	regulations/legislation specific for the substance or mixture nd/or Restrictions On Use		
Candidate List of Substances of Very High Concern for Authorisation	Not listed		
REACH: ANNEX XIV list of substances subject to authorisation	Not listed		
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed		
Community Rolling Action Plan (CoRAP) Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants	Not listed Not listed		
Regulation (EC) N° 1005/2009 on	Not listed		
substances that deplete the ozone layer Regulation (EU) N° 649/2012 of the European Parliament and of the Council	Not listed		

concerning the export and import of hazardous chemicals National regulations Other Not known. 15.2 Chemical Safety Assessment A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND Acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road CAS : Chemical Abstracts Service CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures DNEL : Derived No Effect Level EC : European Community EINECS : European Inventory of Existing Commercial Chemical Substances IATA : International Air Transport Association



IBC : Intermediate Bulk Container ICAO : International Civil Aviation Organization IMDG : International Maritime Dangerous Goods LTEL : Long term exposure limit PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulations concerning the International Carriage of Dangerous Goods by Rail STEL : Short term exposure limit STOT : Specific Target Organ Toxicity UN : United Nations vPvB : very Persistent and very Bioaccumulative

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