

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 7/23/2019 Version: 1.0

1.1. Product identifier Product form Substance Substance name : Armonolum ion (II) suffate hexahydrate UPAC name : Ferrous armonium suffate hexahydrate EC-No. : 616-518-0 CAS-No. : 773-38-59 Product code : 1683370 Formula : Fer(IVHA)2(SO4)2-6H2O Product goop :: Raw material 1.2. Relevant identified uses file in use category Main use category :: Laboratory use, Industrial use, Professional use Industrial/Professional use spec : For professional use only Use of the substance/mixture : For professional use only Use of the substance/mixture : For professional use only 1.3. Details of the subplier of the safety data sheet Supplier Scafell Organics Molekula.com Molekula Ld Lingfield Way Darlington - England : 44 (0) 7590 545705 Stores of the substance on wixture Cassification according to Regulation (EC) No. 12722008 [CLP] Skin carge organ toxicity — Single exposure, Category 3. H335 Specific target organ toxicity — Single exposure, Category 3. H335 Specific target organ toxicity — Single exp	SECTION 1: Identification of the subs	stance/mixture and of the company/undertaking		
Substance name : Ammonium iron (II) sulfate hexahydrate : UPAC name : Ferrous ammonium sulfate hexahydrate : EC-No. : 1616-518-0 CAS-No. : 7733-85-9 Product code : 16833770 Formula : Fe(NH4)2(SC4)2 6H2O Product group : Raw material : 12. Relevant identified uses of the substance or mixture and uses advised against : 12. Relevant identified uses of the substance or mixture and uses advised against : 12. Relevant identified uses if For professional use industrial use, Professional use industrial/Professional use appeared industrial/Professional use appeared in the substance/mixture : For analytical purposes : Scientific research and development : Not for human consumption or veterinary purposes : Scientific research and development : Not for human consumption or veterinary purposes : Scientific research and development : Not for human consumption or veterinary purposes : Scientific research and development : Not for human consumption or veterinary purposes : Scientific research and development : Not for human consumption or veterinary purposes : Scientific research and development : Not for human consumption or veterinary purposes : Scientific research and development : Not for human consumption or veterinary purposes : Scientific research and development : Not for human consumption or veterinary purposes : Scientific research and development : Hazard statements : see sector 16 : Hazard statements : see sector 16 : Sector Or Haser : Signal word (CLP) : : : : Signal word (CLP) : : : : Signal word (CLP) : : : : : : Signal word (CLP) : : : : : Signal word (CLP) : : : : : : Signal wo				
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H335 - May cause respiratory irritation.	lazard statements (CLP)			
Precautionary statements (CLP) : P261 - Avoid breathing dust, fume. P280 - Wear protective clothing, eye protection, face protection, protective gloves.	Precautionary statements (CLP)	: P261 - Avoid breathing dust, fume. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove		
2.3. Other hazards				

.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients				
3.1. Substances				
Name Product identifier %				
Ammonium iron (II) sulfate hexahydrate (CAS-No.) 7783-85-9 (EC-No.) 616-518-0 100				
Full text of H-statements: see section 16				

Full text of H-statements: see section 16 3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing). Headache.
Symptoms/effects after skin contact	: May cause moderate irritation, including burning sensation, tearing, redness or swelling. Itching.
Symptoms/effects after eye contact	: Causes serious eye irritation. redness, itching, tears. stinging.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Abdominal pain, nausea.
4.3. Indication of any immediate medical a	Ittention and special treatment needed
Get immediate medical advice/attention.	

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	ince or mixture
Hazardous decomposition products in case of fire	: Iron oxide. Nitrogen oxides. Sulphur oxides.
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equip	oment and emergency procedures			
General measures	: Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition.			
6.1.1. For non-emergency personnel				
Protective equipment	: Wear recommended personal protective equipment.			
Emergency procedures	: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.			
Measures in case of dust release	: Keep upwind. Avoid creating or spreading dust. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).			
6.1.2. For emergency responders				
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.			
Emergency procedures	: Ventilate area.			
6.2. Environmental precautions				
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.				

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6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	: On land, sweep

: On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a closed container for disposal.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid creating or spreading dust. Provide local exhaust or general room ventilation.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including a	any incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use. Light sensitive. Air sensitive. Store contents under inert gas.
Incompatible products	: Strong acids. Strong oxidizing agents.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources. Air contact. Light sensitive.
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Store below 20 °C. Keep container tightly closed. Store in a dark area. Store in a dry place. Store in a closed container.
7.3 Specific and use(s)	

7.3. Specific end use(s)

For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

SECTION 8: Expos		rols/persc	onal protection				
8.1. Control paramet No additional information							
3.2. Exposure contro							
Appropriate engineerin	g controls:						
landle in accordance wi	th good indu	ustrial hygien	e and safety procedure	S.			
Personal protective equation of the second s	-						
Materials for protectiv	e clothing:						
Wear suitable protective	e clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves to	be used mu	ust comply wi	ith the specifications of	the regulation 2016/425 a	nd the resul	ltant standard	I EN 374
Туре	Material		Permeation	Thickness (mm)	Penetrati	on	Standard
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash fo designed to protect aga			ble in the immediate vic	cinity of any potential expo	sure. Use e	ye protection	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety goggles	bggles Fine dust, Dust tightly fitting safety goggles, With side shields EN 166						
Skin and body protect	ion:						
Emergency safety show clothing readily available			n the immediate vicinity	of any potential exposure	. Keep suita	able chemical	ly resistant protective
Type Standard							
Protective clothing (with elasticated cuffs and closed neck) EN ISO 13982							
Respiratory protectior	1:						
Keep self contained bre protection equipment is			available for emergenc	y use. Where exposure th	ough inhala	ation may occ	ur from use, respiratory

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Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре Р1, Туре Р2	Dust protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical	
9.1. Information on basic physical and c	
Physical state	: Solid
Appearance	: Crystalline powder.
Molecular mass	: 392.14 g/mol
Colour	: light blue. light green.
Odour	: No data available.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 100 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	

9.2. Other information No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5. Incompatible materials
Strong oxidizers. Strong acids.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates : Iron oxide. Sulphur oxides. Nitrogen
oxides

SECTION 11: Toxicological in		
11.1. Information on toxicologica	l effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Ammonium iron (II) sulfate hexa	hydrate (7783-85-9)	
LD50 oral rat	3250 mg/kg	
Skin corrosion/irritation	: Causes skin irritation.	

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	This amenument (regulation (LO) 2010/000
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye irritation.
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause respiratory irritation.
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological infor	ation	
12.1. Toxicity		
Acute aquatic toxicity	: Not classified	
Chronic aquatic toxicity	: Not classified	
Ammonium iron (II) sulfate hexahydrate (7783-85-9)		
LC50 fish 1	315 mg/l Fundulus heteroclitus (Mummichog) 48hr	
12.2. Persistence and degradability		
Ammonium iron (II) sulfate hexahydrate (7783-85-9)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Ammonium iron (II) sulfate hexahydrate (7783-85-9)		

Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Ammonium iron (II) sulfate hexahydrate (7783-85-9)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
12.6. Other adverse effects		
Additional information :	Avoid release to the environment.	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	:

Ecology - waste materials

Dispose in a safe manner in accordance with local/national regulations.

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: Avoid release to the environment.
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SECTION 14: Transpor In accordance with ADR / RID				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number		·		
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				
14.6. Special precautions	for user			

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Ammonium iron (II) sulfate hexahydrate is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other infor	mation	
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	
Other information	: None.	
Full text of H- and EUH-stater	ments:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.