

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 7/16/2019 Version: 1.0

SECTION 1: Identification of the subst	ance/mixture and of the com	pany/undertaking
1.1. Product identifier Product form	: Substance	
Substance name	: Aluminium oxide basic	
IUPAC name	: Activated Alumina	
EC-No.	: 215-691-6	
CAS-No.	: 1344-28-1	
Product code	: 25095406	
Formula	: Al2O3	
Product group	: Raw material	
1.2. Relevant identified uses of the substant	nce or mixture and uses advised	d against
1.2.1. Relevant identified uses		
Main use category	: Laboratory use,Industrial use,Prof	fessional use
Industrial/Professional use spec	: For professional use only	
Use of the substance/mixture	: For analytical purposes	
	Scientific research and developme	
	Not for human consumption or vet	terinary purposes.
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safety date	ta sheet	
Supplier		
Scafell Organics		
Molekula Ltd		
Lingfield Way Darlington - England		
T +44 (0) 1949 823777 / +44 (0) 7590 545705		
info@molekula.com / kbowen@molekula.com - ww	w.molekula.com	
1.4. Emergency telephone number		
Emergency number :	+44 (0) 7590 545705	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mix	ture	
Classification according to Regulation (EC) No.	1272/2008 [CLP]	
Not classified		
Adverse physicochemical, human health and er	ivironmental effects	
No additional information available		
2.2. Label elements		
Not classified.		
2.3. Other hazards		
This substance/mixture does not meet the PBT crite		
This substance/mixture does not meet the vPvB cri	teria of REACH regulation, annex XIII	
SECTION 3: Composition/information	on ingredients	
3.1. Substances		
Name	Product identifier	%
Aluminium oxide basic	(CAS-No.) 1344-28-1	100
	(EC-No.) 215-691-6	
3.2. Mixtures		
Not applicable		
SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general		available show packaging or label. Never give anything by
		. Do not leave affected person unattended.
First-aid measures after inhalation	. If have a the interval of a life interval to a surrow of a	ctim to fresh air and keep at rest in a position comfortable
		ficial respiration if necessary. If breathing difficulties

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

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	, both acute and delayed
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: May cause eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Abdominal pain, nausea.
4.3. Indication of any immediate medical at Treat symptomatically.	ttention and special treatment needed

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 Hazardous decomposition products in case of fire	ance or mixture : None known.
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 measure	es
6.1. Personal precautions, protective equipr	ment 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 aut	horities if product enters sewers or public waters.
6.3. Methods and material for containment a	and cleaning up
Methods for cleaning up	: 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	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. Hygroscopic.

		basic					
Safety Data She according to Regulation (EC		06 (REACH) w	rith its amendment Regulat	ion (EU) 2015/830			
ncompatible products	,	: Strong oxidizing agents. Acids. Bases. Halogens. Nitrates.					
compatible materials		: Sources of ignition. Direct sunlight. Heat sources. Moisture. Water, humidity.			humidity.		
eat and ignition source	S		: Keep away from heat, hot surfaces, sparks, open flames and other ignition source smoking.		ignition sources. No		
torage area			: Store below 20 °	C. Store in dry protected	location to pi	revent any m	oisture contact.
.3. Specific end use or analytical purposes.		earch and d	evelopment. Not for hu	man consumption or vete	rinary purpos	es.	
ECTION 8: Expos		ols/perso	onal protection				
.1. Control paramet o additional information							
.2. Exposure contro							
ppropriate engineerir							
	•	strial hygien	e and safety procedure	S.			
ersonal protective eq	uipment:	,,,					
void all unnecessary ex	•						
Materials for protectiv	e clothing:						
Wear suitable protective	e clothing, glo	oves and eye	e/face protection				
Hand protection:							
The protective gloves to	be used mu	st comply wi	th the specifications of	the regulation 2016/425	and the result	tant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetratio	on	Standard
Disposable gloves	Nitrile rubbe	er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash fo designed to protect aga			ble in the immediate vic	inity of any potential exp	osure. Use ey	e protection	according to EN 166
Гуре		Use		Characteristics		Standard	
		Fine dust, Dust		With side shields		EN 166	
Salety glasses							
Safety glasses Skin and body protect	tion:			With side shields			
Skin and body protect	vers should b			of any potential exposur	e. Keep suita		ly resistant protective
Skin and body protect Emergency safety show clothing readily available	vers should b				e. Keep suita		ly resistant protective
Skin and body protect Emergency safety show clothing readily availabl	vers should b e for emerge			of any potential exposur	e. Keep suita		ly resistant protective
Skin and body protect Emergency safety show clothing readily availabl Type Long sleeved protective	vers should b e for emerge e clothing			of any potential exposur	e. Keep suita		ly resistant protective
Skin and body protect Emergency safety show clothing readily availabl Type Long sleeved protective Respiratory protection	vers should b e for emerge e clothing n:	ncy use	n the immediate vicinity	of any potential exposur		ble chemical	
Skin and body protect Emergency safety show clothing readily availabl Type Long sleeved protective Respiratory protection	vers should b e for emerge e clothing n:	ncy use	n the immediate vicinity	of any potential exposur Standard EN ISO 13982		ble chemical	

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical pr 9.1. Information on basic physical and che Physical state	
Appearance	: Powder.
Molecular mass	: 101.96 g/mol
Colour	: white.
Odour	: No data available.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 2030 °C
Freezing point	: No data available
Boiling point	: 2977 °C

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

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

Acute toxicity (dermal)

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. Moisture. Water, humidity.			
10.5. Incompatible materials			
Strong oxidizers. Acids. Bases. Halogens. Nitrates.			
10.6. Hazardous decomposition products			
No hazardous decomposition products known at room temperature.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity (oral) : Not classified			

: Not classified

Acute toxicity (inhalation)	: Not classified
Aluminium oxide basic (1344-28-1)	
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 2.3 mg/l/4h
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
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	: Not classified
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

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

Potential adverse human health effects and symptoms

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information		
12.1. Toxicity	Not classified	
Chronic aquatic toxicity :	Not classified	
12.2. Persistence and degradability		
Aluminium oxide basic (1344-28-1)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Aluminium oxide basic (1344-28-1)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Aluminium oxide basic (1344-28-1)		
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	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 44. Transport information	

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard o	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 haz	zards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information	on available			
4.6. Special precautions	s for user			

Overland transport Not regulated Transport by sea Not regulated Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport Not regulated

Safety Data Sheet

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

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. EU-Regulations No REACH Annex XVII restrictions Aluminium oxide basic 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 information Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

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.

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.