



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 4/5/2019 Version: 1.0

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

1.1. Product identifier

Product form : Substance Substance name : Sodium peroxide Chemical name : sodium peroxide **IUPAC** name : disodium peroxide EC Index-No. : 011-003-00-1 EC-No. : 215-209-4 CAS-No. : 1313-60-6 Product code : 49009169 Formula Na2O2 Product group : Raw material

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

1.2.1. Relevant identified uses

Main use category : Laboratory use, Industrial use, Professional use

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data 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 - www.molekula.com

1.4. Emergency telephone number

Emergency number : +44 (0) 7590 545705

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Oxidising Solids, Category 1 H271 Skin corrosion/irritation, Category 1A H314

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS03

GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H271 - May cause fire or explosion; strong oxidiser.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P220 - Keep away from clothing and other combustible materials.

P280 - Wear protective clothing, eye protection, face protection, protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

2.3. 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

EN (English) 1/8

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E	SECTION 3: Composition/information on ingredients			
3	3.1. Substances			
	Name	Product identifier	%	
		(CAS-No.) 1313-60-6 (EC-No.) 215-209-4 (EC Index-No.) 011-003-00-1	100	

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

	t 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 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

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 after inhalation

First-aid measures after eye contact

: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May be harmful if inhaled.

Symptoms/effects after skin contact

: Causes severe burns. May produce skin irritation, blistering, ulcers, and deep scarring. Cracking of the skin. Redness, pain.

Symptoms/effects after eye contact

: Causes serious eye burns. redness, itching, tears. stinging. More severe symptoms are also possible.

Symptoms/effects after ingestion

: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. Ingestion

ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. In may cause nausea, vomiting and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER/doctor.

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 substance or mixture

Fire hazard : May intensify fire; oxidiser.

Reactivity in case of fire : with organic material: (increased) risk of fire/explosion.

Hazardous decomposition products in case of fire : Sodium 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 equipment 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).

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Methods for cleaning up

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

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

6.3. Methods and material for containment and 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. Handle

under inert gas.

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

: Ensure adequate ventilation, especially in confined areas. Proper grounding procedures to Technical measures

avoid static electricity should be followed.

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. Keep contents under inert

gas.

Incompatible products : Strong oxidisers. Strong reducing agents. Powdered metals. alcohols. Organic materials.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources. sparks. open flames.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

Storage area : Keep away from combustible materials. Store below 20 °C. Store in a dry place. Store in a

closed container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Butyl rubber	6 (> 480 minutes)	0.3		EN 374

Eye protection:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts.

Туре	Use	Characteristics	Standard
Safety goggles, Face shield	Fine dust, Dust	tightly fitting safety goggles, With side shields	EN 166

Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

Туре	Standard
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product	EN ISO 13982

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Respiratory protection:

Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Type P3	Dust protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Granules. Powder.
Molecular mass : 77.98 g/mol

Colour : White to faint yellow.

Odour : No data available.

Odour threshold : No data available

pH : 12.8 100 g/l at 20 °C

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 460 °C

Freezing point : No data available

Boiling point : 657 °C at 1,013 hPa - Decomposes on heating

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 : 2.805 g/cm3 Solubility : No data available Log Pow : No data available : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties Oxidising properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive limits

May intensify fire; oxidiser.

10.2. Chemical stability

May cause or intensify fire; oxidiser.

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.

: No data available

10.5. Incompatible materials

Strong oxidizers. Strong reducing agents. Organic materials. Alcohols. Powdered metals.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates : Sodium Oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 12.8 100 g/l at 20 °C

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

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 12.8 100 g/l at 20 °C

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

Potential adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic foxicity : Not classified Chronic aquatic toxicity : Not classified

12.2. Persistence and degradability

Sodium peroxide (1313-60-6)

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Sodium peroxide (1313-60-6)

Bioaccumulative potential No data available.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Sodium peroxide (1313-60-6)

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 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1504	1504	1504	1504	1504
14.2. UN proper shipping name				
SODIUM PEROXIDE	SODIUM PEROXIDE	Sodium peroxide	SODIUM PEROXIDE	SODIUM PEROXIDE

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Transport document description				
UN 1504 SODIUM PEROXIDE (Sodium peroxide), 5.1, I, (E)	UN 1504 SODIUM PEROXIDE (Sodium peroxide), 5.1, I	UN 1504 Sodium peroxide (Sodium peroxide), 5.1, I	UN 1504 SODIUM PEROXIDE (Sodium peroxide), 5.1, I	UN 1504 SODIUM PEROXIDE (Sodium peroxide), 5.1, I
14.3. Transport hazard o	class(es)			
5.1	5.1	5.1	5.1	5.1
5.1	5.1	5.1	5.1	5.1
14.4. Packing group				
I	I	I	I	I
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Overland transport

 Classification code (ADR)
 : O2

 Limited quantities (ADR)
 : 0

 Excepted quantities (ADR)
 : E0

Packing instructions (ADR) : P503, IBC05

Mixed packing provisions (ADR) : MP2
Transport category (ADR) : 1
Special provisions for carriage - Packages (ADR) : V10
Special provisions for carriage - Loading, : CV24

unloading and handling (ADR)

Special provisions for carriage - Operation (ADR) : S20
Tunnel restriction code (ADR) : E
EAC code : 1W

Transport by sea

Limited quantities (IMDG) : 0 Excepted quantities (IMDG) : E0 Packing instructions (IMDG) : P503 IBC packing instructions (IMDG) : IBC05 IBC special provisions (IMDG) : B1 : **F-**G EmS-No. (Fire) EmS-No. (Spillage) : S-Q : C Stowage category (IMDG) Stowage and handling (IMDG) : H1

Segregation (IMDG) : SG16, SG35, SG59, SG26, SG36

Properties and observations (IMDG) : Pale yellow coarse powder or granules. Particularly if wetted with small quantities of water,

a mixture with combustible material may ignite, following impact or friction. When involved in a fire, or in contact with water or acids, decomposes, evolving oxygen. Highly irritating to

skin, eyes and mucous membranes.

Air transport

PCA Excepted quantities (IATA) : E0 PCA Limited quantities (IATA) : Forbidden PCA limited quantity max net quantity (IATA) : Forbidden PCA packing instructions (IATA) : Forbidden PCA max net quantity (IATA) : Forbidden CAO packing instructions (IATA) : 561 CAO max net quantity (IATA) : 15kg Special provisions (IATA) : A1 ERG code (IATA) : 5L

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Inland waterway transport

Classification code (ADN) : O2
Limited quantities (ADN) : 0
Excepted quantities (ADN) : E0
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : O2
Limited quantities (RID) : 0
Excepted quantities (RID) : E0

Packing instructions (RID) : P503, IBC05

Mixed packing provisions (RID) : MP2
Transport category (RID) : 1
Special provisions for carriage – Packages (RID) : W10
Special provisions for carriage - Loading, : CW24

unloading and handling (RID)

Hazard identification number (RID) : 55

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 Sodium peroxide is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to

AwSV; ID No. 383)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

gittige stolleri – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

: The substance is not listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

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 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-statements:	
Ox. Sol. 1 Oxidising Solids, Category 1	
Skin Corr. 1A Skin corrosion/irritation, Category 1A	
H271 May cause fire or explosion; strong oxidiser.	
H314	Causes severe skin burns and eye damage.

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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.