

Phosphorus pentoxide Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 3/19/2020 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking         11. Product Identifier         Product form       : Substance         Substance name       : Phosphorus pentoxide         UIPAC name       : 1,3-dioxxdiphosphoxane 1,3-dioxide         EC Index-No.       : 015-010-00-0         EC-No.       : 215-236-1         CAS-No.       : 1314-56-3         Product code       : 72291401         Formula       : P2O5         Product group       : Raw matrial         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         Use of the substance/mixture       : For professional use only         Use of the substance/mixture       : For professional use only         1.3. Details of the sapplier of the safety data sheet       Scientific research and development Not for human consumption or veterinary purposes.         Scientific       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 huma				
Substance name       Phosphorus pentoxide         Chemical name       : phosphorus pentoxide         IUPAC name       : 1,3-dioxodiphosphoxane 1,3-dioxide         EC Index-No.       : 015-010-00-0         EC-No.       : 215-236-1         CAS-No.       : 1314-56-3         Product code       : 72231401         Formula       : P205         Product group       : Raw material <b>1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses</b> 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         Use of the substance/mixture       : Scientific research and development Not for human consumption or veterinary purposes. <b>1.3. Details of the supplier of the safety data sheet</b> Supplier         Scafell Organics Molekula Ltd       Inglied Way         Darington England       : 444 (0) 7769276927         SCECTION 2: Hazards identification       : 444 (0) 7769276927				
Chemical name       : phosphorus pentoxide         IUPAC name       : 1,3-dioxodiphosphoxane 1,3-dioxide         EC Index-No.       : 015-010-00-         EC-No.       : 215-236-1         CAS-No.       : 1314-56-3         Product code       : 72291401         Formula       : P205         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 analytical purposes         Scientific research and development Not for human consumption or veterinary purposes.         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         Molekula Ltd         Lingfied Way         Derington - England T +44 (0) 3202 000 333         Tride_molekula.com / kevinbanks@molekula.com         1.4. Emergency telephone number         ECETION 2: Hazards Identification         2.1. Classification of the substance or mixture				
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Classification according to Regulation (EC) No. 1272/2008 [CLP]				
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)				
Signal word (CLP) : Danger				
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.				
Precautionary statements (CLP) 2 P223 - Do not allow contact with water. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection.				
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remo				
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remo contact lenses, if present and easy to do. Continue rinsing.				

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

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	
Phosphorus pentoxide	(CAS-No.) 1314-56-3 (EC-No.) 215-236-1 (EC Index-No.) 015-010-00-0	100	

## 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 effect	ts, both acute and delayed
Symptoms/effects after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. Respiratory difficulties.
Symptoms/effects after skin contact	: May produce skin irritation, blistering, ulcers, and deep scarring. Causes severe burns.
Symptoms/effects after eye contact	: May cause severe chemical burns to cornea. Suitable first-aid treatment should be immediately available. Seek medical advice before using product.
Symptoms/effects after ingestion	: Severe irritation or burns to the mouth, throat, oesophagus, and stomach. burns of the upper digestive and respiratory tracts, abdominal pain, bloody vomiting, severe damage to the delicate tissue and danger of perforation.

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

Get immediate medical advice/attention.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Sand.
Unsuitable extinguishing media	: Do NOT use water jet.
5.2. Special hazards arising from the substa	ince or mixture
Fire hazard	: Reacts violently with water.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire	: Phosphorus oxides.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: seal off low-lying areas. Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Evacuate area. Eliminate all ignition sources if safe to do so. Fight fire from safe distance and protected location. Keep upwind.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
General measures	: Do not handle until all safety precautions have been read and understood. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Proper grounding procedures to avoid static electricity should be followed.
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.

## Phosphorus pentoxide

## Safety Data Sheet

Methods for cleaning up

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

Measures in case of dust release	: Keep upwind. Avoid creating or spreading dust. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Special attention should be given to low areas/pits where flammable vapours can accumulate.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing.
Emergency procedures	: All equipment used when handling the product must be grounded. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Stop leak if safe to do so.
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 contain	inment and cleaning up

container for disposal.

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

**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 : Reacts violently with water. Additional hazards when processed Precautions for safe handling : Avoid formation of dust. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Ensure that there is a suitable ventilation system. Do not handle in a confined space. Handle under inert gas. : Take off immediately all contaminated clothing and wash it before reuse. Contaminated Hygiene measures work clothing should not be allowed out of the workplace. 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. Proper grounding procedures to 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. Store contents under inert gas. Incompatible products : Strong oxidizing agents. Bases. Ammonia. copper. Incompatible materials : Sources of ignition. Direct sunlight. Heat sources. open flames. sparks. Water, humidity. Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. : Keep away from combustible materials. Store below 20 °C. Store in dry protected location Storage area to prevent any moisture contact. Special rules on packaging : Never allow product to get in contact with water during storage. 7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection 8.1. Control parameters Phosphorus pentoxide (1314-56-3)				
United Kingdom	Local name	Disphosphorus pentoxide		
United Kingdom	WEL TWA (mg/m³)	1 mg/m³		
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>		
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE		
8.2. Exposure controls				

## Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures.

### Personal protective equipment:

Avoid all unnecessary exposure.

Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

## 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 І	Material Permeation		Thickness (mm)	Penetration		Standard	
Disposable gloves	Nitrile rubber (NBR)		6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash fou designed to protect again			ble in the immediate vici	nity of any potential expos	sure. Use ey	e protection a	according to EN 166,
Type Use Characteristics			Standard				
Safety goggles, Face shield Fine dust, Dust			tightly fitting safety goggles, With EN 166 side shields				
Skin and body protection	on:						
Emergency safety showe clothing readily available			n the immediate vicinity o	of any potential exposure.	Keep suita	ble chemically	resistant protective
Type Standard							
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product, Flame retardant antistatic protective clothing							
Respiratory protection:							
Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respirator protection equipment is recommended							
Device		Filter type		Condition		Standard	
Respiratory protective device with a particle filter			Dust protection		EN 14387		

## Other information:

Do not eat, drink or smoke during use.

SECTION & Physical and shaming her	
SECTION 9: Physical and chemical pr 9.1. Information on basic physical and che	
Physical state	: Solid
Appearance	: Crystalline powder.
Molecular mass	: 141.94 g/mol
Colour	: White to off-white.
Odour	: No data available.
Odour threshold	: No data available
рН	: 1.5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
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)	: No data available
Vapour pressure	: 13 hPa at 238 °C
Relative vapour density at 20 °C	: 4.9
Relative density	: No data available
Density	: 2.3 g/m³
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	
No additional information available	

SECTION 10: Stability and reactivity
10.1. Reactivity
Reacts violently with water.
10.2. Chemical stability
In use may form flammable/explosive vapour-air mixture.
10.3. Possibility of hazardous reactions
Stable 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. Metals. Ammonia. Bases. copper. water.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates : Phosphorus oxides.

SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 1.5
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
	pH: 1.5
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 symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information 12.1. Toxicity			
Hazardous to the aquatic environment, short-term (acute)	: Not classified		
Hazardous to the aquatic environment, long-term (chronic)	: Not classified		
Phosphorus pentoxide (1314-56-3)			
NOEC chronic algae	12.5 mg/l Desmodesmus subspicatus (green algae) - 72hr		
12.2. Persistence and degradability			
Phosphorus pentoxide (1314-56-3)			
Persistence and degradability No data available.			
12.3. Bioaccumulative potential			
Phosphorus pentoxide (1314-56-3)			
Bioaccumulative potential No data available.			
12.4. Mobility in soil			
No additional information available			

12.5. Results of PBT and vPvB assessment
Phosphorus pentoxide (1314-56-3)
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.
Additional information	: Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials

: Avoid release to the environment.

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number		1		
1807	1807	1807	1807	1807
14.2. UN proper shippin	g name			
PHOSPHORUS PENTOXIDE	PHOSPHORUS PENTOXIDE	Phosphorus pentoxide	PHOSPHORUS PENTOXIDE	PHOSPHORUS PENTOXIDE
Transport document descr	iption			
UN 1807 PHOSPHORUS PENTOXIDE, 8, II, (E)	UN 1807 PHOSPHORUS PENTOXIDE, 8, II	UN 1807 Phosphorus pentoxide, 8, II	UN 1807 PHOSPHORUS PENTOXIDE, 8, II	UN 1807 PHOSPHORU PENTOXIDE, 8, II
14.3. Transport hazard o	class(es)	1		
8	8	8	8	8
8	8	8	8	
14.4. Packing group				
II	Ш	II	II	Ш
14.5. Environmental haz	ards	·		
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 informatio	n available		1	
14.6. Special precautions				
Overland transport				
Classification code (ADR)	: C2			
imited quantities (ADR)	: 1kg	g		
Excepted quantities (ADR)	: E2			
Packing instructions (ADR)	: P0	02, IBC08		
Special packing provisions (A	-			
Mixed packing provisions (AD	R) : MF	210		
Portable tank and bulk contair ADR)	ner instructions : T3			
Portable tank and bulk contair ADR)	ner special provisions :TP	33		
「ank code (ADR)	: SG	GAN		
/ehicle for tank carriage	: AT			
Transport category (ADR)	: 2			
Special provisions for carriage	e - Packages (ADR) : V1	1		
Hazard identification number	(Kemler No.) : 80			
3/19/2020 (Version: 1.0)		EN (English)		

## Phosphorus pentoxide

## Safety Data Sheet

Orange plates	80 1807
Tunnel restriction code (ADR)	: E
EAC code	: 2X
Transport by sea	
Packing instructions (IMDG)	: P002
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B21, B4
Tank instructions (IMDG)	: T3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
	: S-B
EmS-No. (Spillage) Stowage category (IMDG)	. З-Б : А
Stowage category (IMDG) Properties and observations (IMDG)	: A : Crystalline powder, very deliguescent. Reacts violently with water and organic materials
	such as wood, cotton or straw, generating heat. In the presence of moisture, mildly corrosive to most metals.
Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y844
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 859
PCA max net quantity (IATA)	: 15kg
CAO packing instructions (IATA)	: 863
CAO max net quantity (IATA)	: 50kg
ERG code (IATA)	: 8W
Inland waterway transport	
Classification code (ADN)	: C2
Limited quantities (ADN)	: 1 kg
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: C2
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAN
Transport category (RID)	:2
Special provisions for carriage – Packages (RID)	: W11
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 80
14.7. Transport in bulk according to Annex	II of Marnol and the IBC Code

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

## 15.1.2. National regulations

## Phosphorus pentoxide

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

## 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				
	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:				
Skin Corr. 1A	Skin corrosion/irritation, Category 1A			
H314	Causes severe skin burns and eye damage.			
EUH014	Reacts violently with water.			

### 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.