

# Safety Data Sheet



Product name:

**Sofnofil**

Document N°: LB01-00408

Issue: 3

Revision date: 03 July 2023

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

## SECTION 1 IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1	Product identifier	Sofnofil (impregnated activated alumina)
	UFI no.	333-POFR-G004-GVRE
1.2	Relevant identified uses of the substance or mixture and uses advised against	<p>Relevant identified uses: An odour absorbent for industrial air purification (e.g., in paper mills, sewage treatment)</p> <p>Sectors of use, industrial uses: Uses of substances as such or in preparations at industrial sites.</p> <p>Product category: PC3 Air care products</p> <p>Process Category:</p> <p>PROC 26 Handling of solid inorganic substance at ambient temperature</p> <p>PROC 9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC14 Tableting, compression, extrusion, pelletisation, granulation</p> <p>PROC 5 Mixing or blending in batch processes for formulation of preparations and articles (Multistage and/or significant contact)</p> <p>Uses advised against: None Known</p> <p>Reason why uses advised against: no data</p>
1.3	Details of the supplier of the safety data sheet	<p>Molecular Products Ltd, Parkway, Harlow Business Park, Harlow, Essex, CM19 5FR, UK</p> <p>+44 (0)1279 445111 (1)</p> <p>sds@molprod.com</p> <p>(1) Only available during office hours 0900 – 1700 GMT</p>
1.4	Emergency telephone number	<p>+44 (0) 1279 445111 (office hours)</p> <p>+44 (0)1865 407333 (out of hours, English speaking)</p> <p>China (NRCC): +86 532 8388 9090 Mexico: +52 555 004 8763,</p> <p>Chile: +56 225 829 336,</p> <p>Brasil: +55 11 3197 5891</p>

## SECTION 2 HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)				
2.1.2	See section 16 for full text of H statements				
2.2	Labelling elements				
2.2.1	Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)				
	Pictogram			Signal word	DANGER
	Hazard statements	<p>H315: Causes skin irritation</p> <p>H318: Causes serious eye damage</p> <p>H361d: Suspected of damaging fertility or the unborn child</p> <p>H373: May cause damage to organs through pro-longed or repeated exposure</p> <p>H411: Toxic to aquatic life with long lasting effects</p>			
	Precautionary statements	<p>P260: Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P264: Wash hands thoroughly after handling.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501: Dispose of contents/container in accordance with local regulations for this hazard rating</p>			
2.3	Other hazards				
	<p>Hazardous substance potassium permanganate.</p> <p>Dust may cause irritation of skin and eyes.</p>				

	This mixture/ product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
--	--

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS					
Chemical characterisation					
Chemical name	CAS-No	EC no.	Classification	Concentration	
Aluminium oxide	1344-28-1	215-619-6	Not classified	> 80%	
Potassium permanganate	7722-64-7	231-760-3	Ox. Sol. 2 H272 Acute Tox. 4 H302 Skin Corr. 1C, H314 Repr. 2 H361d STOT RE 2 H373 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	< 6%	
Sodium carbonate	497-19-8	207-838-8	Eye Irrit. 2, H319	<5%	

SECTION 4 FIRST AID MEASURES		
4.1	Description of measures	
	General information	In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person’s condition or if the symptoms persist. Never give an unconscious person water or other drink.
	Inhalation	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
	Skin contact	Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.
	Eye contact	If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.
	Ingestion	If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.
4.2	Most important effects/symptoms	The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.
4.3	Immediate/special treatment	IF exposed or concerned: Get immediate medical advice/attention. Information to medics: Bring this safety data sheet or the label from this product.

SECTION 5 FIRE FIGHTING MEASURES		
5.1	Extinguishing media	Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.
5.2	Special hazards	Product releases oxygen when heated strongly which can intensify a fire. Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire extinguishing water to enter the sewage system and nearby surface waters. If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are: Carbon oxides (CO / CO2) Some metal oxides.
5.3	Advice for fire fighters	Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice. Remove product away from fire, if possible. Use water to keep fire exposed containers cool. Remove remnants of extinguishing agents in accordance with the law.

SECTION 6 ACCIDENTAL RELEASE MEASURES		
6.1	Personal precautions, protective equipment and emergency procedures	Avoid contact with the product. Wear protective equipment. Do not breathe dust.
6.2	Environmental precautions	Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.
6.3	Methods and material for containment and cleaning up	Collect mechanically and dispose in suitable containers. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. When released in larger quantities occurs, inform appropriate authorities.
6.4	Reference to other sections	See section 7 for information on safe handling. See section 13 “Disposal considerations” on handling of waste. See section 8 “Exposure controls/personal protection” for protective measures.

SECTION 7 HANDLING AND STORAGE		
7.1	Precautions for safe handling	Prevent formation of dust. Any deposit of dust which cannot be avoided must be removed regularly. During work, do not eat, drink or smoke. Do not breathe dust. Use PPE specified in section 8. Maintain good personal hygiene. Follow valid regulations on health and safety.
7.2	Conditions for safe storage, including any	Must be stored in a cool and well-ventilated area, away from possible sources of ignition. <i>Recommended storage material:</i> Keep only in original packaging.

	incompatibilities	Storage temperature: Dry, cool and well-ventilated Incompatible materials: Water Keep away from heat, sparks and open flames
7.3	Specific end use(s)	This product should only be used for applications quoted in section 1.2.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION									
8.1	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2020)								
	LTEL (8-hour TWA)	10 mg/m <sup>3</sup>			Data for inhalable aluminium oxide dust				
	LTEL (8-hour TWA)	4 mg/m <sup>3</sup>			Data for respirable aluminium oxide dust				
	LTEL (8-hour TWA)	0.5 mg/m <sup>3</sup>			Data for Manganese and its inorganic compounds (as Mn) dust				
	Potassium permanganate is included in the national list of substances suspected of causing cancer. SZW list of carcinogenic substances and processes, mutagenic or toxic for reproduction, Ministry of Social Affairs and Employment (2022 no. 17428).								
	Mixture								
	DNELs								
	Sofnofil	Workers				General population			
	Route of exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effects local	Acute effects systemic	Chronic effects local	Chronic effects systemic
	Oral	Not required				No data	No data	No data	0.02 mg/kg bw/day (Human)
	Inhalation	No data	No data	No data	No data	No data	No data	0.03 mg/kg bw/day (Human)	No data
	Dermal	No data	No data	0.03 mg/kg bw/day (Human)	1.25 mg/kg bw/day (Human)	No data	No data	0.03 mg/kg bw/day (Human)	0.2 mg/kg bw/day (Human)
	PNECs								
	Environmental protection target					PNEC			
	Aqua (Fresh water )					0.00006 mg/L (STP= 1.64 mg/L)			
	Aqua (intermittent release)					0.0006 mg/L			
	Freshwater sediments					No data			
	Marine water					No data			
	Marine sediments					No data			
	Food chain					No potential for bioaccumulation			
	Microorganisms in sewage treatment					No data			
	Soil (agriculture)					No data			
	Air					No data			

	Substance name	Potassium permanganate							
	EC number	231-760-3			CAS number	7722-64-7			
	DNELs								
		Workers				Consumers			
	Route of exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effects local	Acute effects systemic	Chronic effects local	Chronic effects systemic
	Oral	Not required				No data	No data	No data	No data
	Inhalation	Low hazard (No threshold derived)	Low hazard (No threshold derived)	Low hazard (No threshold derived)	0.2 mg/m <sup>3</sup>	Medium hazard (No threshold derived)	Low hazard (No threshold derived)	Medium hazard (No threshold derived)	0.039 mg/m <sup>3</sup>
	Dermal	No data	No data	No data	No data	Medium hazard (No threshold derived)	No data	Medium hazard (No threshold derived)	No data
	PNECs								
	Environmental protection target					PNEC			
	Fresh water, single exposure					60 ng/L			
	Intermittent release (freshwater), single exposure					600 ng/L			
	Freshwater sediments					No exposure expected			
	Marine water					No data			
	Marine sediments					No exposure expected			

	Food chain	No data	
	Microorganisms in sewage treatment	1.64 mg/L	
	Soil (agriculture)	No exposure of soil expected	
	Air	No hazard identified	
	Substance name	Sodium Carbonate	
	EC number	207-838-8	CAS number 497-19-8
	DNELs		
		Workers	General population
	Route of exposure	Long term-local effects	Long term-local effects
	Inhalation	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
8.2	Exposure controls		
	Appropriate engineering controls	Substance/mixture related measures to prevent exposure during identified uses: no data Structural measures to prevent exposure: Provide adequate ventilation (e.g., local exhaust ventilation) Organisational measures to prevent exposure: no data Technical measures to prevent exposure: Local exhaust ventilation.	
	Personal protection equipment	Observe normal hygiene standards for handling chemicals Wash hands before breaks and after work Avoid raising dust. Wear personal protective equipment appropriate to the task (see below) Use only CE marked protective equipment	
	Eye and face protection	Tightly sealed safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).	
	Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Nitrile gloves, protective gloves thickness 0.4mm, breakthrough time (min.) >480 needs to satisfy the specifications of Regulation (EU) 2016/425 and the standards EN 374. Body protection, impervious clothing. Take off contaminated clothing and wash it before reuse. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.	
	Respiratory protection	When dusts are generated, wear respiratory protection ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).	
	Thermal hazards	This material, when exposed to water, can become hot and heat water to boiling point. Flood with water to reduce the temperature.	
	Environmental exposure controls	Measures to avoid environmental exposure: Keep damming materials near the workplace. If possible, collect spillage during work. Appropriate technical measures: Do not recirculate outlet air that contains the substances.	
8.1.3	Exposure limits at intended use	Not available.	
8.2	Exposure controls	Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing. Was contaminated clothing before re-use. Wash hands during breaks and at end of work. Avoid contact with the eyes and skin.	

<b>SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES</b>				
9.1	Basic physical and chemical properties			
	Physical form	Solid	Colour	Purple (brown after use)
	Odour	Odourless	pH	Not determined
	Boiling pt/range	Not determined	Melting pt/range	Not determined
	Flash point	Not applicable-inorganic material	Relative density	3.3 g/cm <sup>3</sup>
	Water solubility	Slight. Potassium permanganate will leach out to give purple/brown colour	Odour threshold	Not applicable
	Evaporation rate	Not applicable	Flammability	The material is not combustible
	Explosion limits	Not applicable	Vapour pressure	23hPa (20°C)
	Vapour density	Not applicable	Partition coeff. Log Poct/water	Not applicable-mixture of inorganic substances
	Auto-ignition temperature	Not applicable-based on structure	Viscosity	Not applicable
	Explosive properties	Not determined	Oxidising properties	Not determined
	Decomposition temperature	Not determined	Particle characteristics/size	2.0-5.0 mm porous pellet
9.2	Other information	Oxidizing properties: Product is not oxidising-test according to UN Handbook Test and Criteria Division 5.1 section 34.4.1		

<b>SECTION 10 STABILITY AND REACTIVITY</b>		
10.1	Reactivity	No decomposition if used according to specifications. The content of potassium permanganate is not sufficient to classify the product as an oxidising (test according to UN handbook Test Criteria Division 5.1 section 34.4.1).
10.2	Chemical stability	The product is stable under standard conditions (20 °C , 101.3 kPa. Note section 7 "Handling and



		storage”.
10.3	Hazardous reactions	In case of contact with acids, decomposition possible with carbon dioxide gas being formed.
10.4	Conditions to avoid	Contact with oxidisable material and temperatures > 190°C
10.5	Incompatible material	Oxidisable materials, water, heat, sparks and open flames
10.6	Hazardous decomposition products	The product is not degraded when used and stored as specified in section I.

SECTION 11		TOXICOLOGICAL INFORMATION					
11.1		Information on hazard classes as defined in Regulation (EC) No 1272/2008					
		Information for potassium permanganate as aluminium oxide is not classified					
	Hazard class	Method	Species	Route of exposure	Effective dose	Exposure time	Results
	Acute toxicity	LD <sub>50</sub>	Rat (female)	oral	No data	No data	>2000 mg/kg bw
		LD <sub>50</sub>	Rat (male/female)	dermal	No data	No data	>2000 mg/kg bw
	Skin corrosion/irritation	Classified as skin irritant. According to study: "Jasorb P-10: The corrositex Assay" (method OECD 435) the test item was considered to be non-corrosive. Sofnofil contains less of the hazardous components and are therefore also considered to be non-corrosive. Skin irritation was not tested by this method, so the mixture is classified Causes skin irritation.					
	Serious eye damage/irritation	Classified as causing serious eye damage					
	Respiratory or skin sensitisation	Not classified as a contact allergen					
	Germ cell mutagenicity	Not classified as a mutagen					
	Carcinogenicity	Not classified as carcinogenic.					
	Reproductive toxicity	Suspected of damaging fertility or the unborn child.					
	Summary of evaluation of the CMR properties	Potassium permanganate is not classified as carcinogenic or mutagenic, but it is classified reprotoxic. The study shows that overall, by weight of evidence a Repro 2 for development is proposed as self-classification for KMnO <sub>4</sub> - also approved by the RAC and supported by ANSES CoRAP evaluation report.					
	STOT-single exposure	Not classified					
	STOT-repeated exposure	Based on the read-across with other manganese compounds such as MnCl <sub>2</sub> and MnSO <sub>4</sub> , the Lead registrants proposed to change their self-classification to STOT RE 2 – H373 (brain; inhalation) considering the brain as the primary known target for manganese toxicity. This classification is based on weight of evidence - several studies on human and animals reporting neurotoxic effects upon inhalation at varying level of exposure.					
	Aspiration hazard	Not classified as an Aspiration hazard					
11.2		Information on other hazards					
		<p><i>Long term effects:</i> Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders. This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle. The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.</p> <p><i>Endocrine disrupting properties:</i> Not applicable</p>					

SECTION 12		ECOLOGICAL INFORMATION			
Results are for potassium permanganate					
12.1	Toxicity to aquatic algae	E,C50 0.8 mg/L	Test method: EU C.3 Compartment: Freshwater Duration: 48 hours		
	Toxicity to bacteria	EC <sub>50</sub> 164 mg/L	ASRIT		
	Toxicity to Daphnia	EC <sub>50</sub> 0.06 mg/L	Test method: EU C.2 Compartment: Freshwater Duration: 48 hours		
	Toxicity to fish	EC <sub>50</sub> 0.47 mg/L	Test method: EU C.1 Compartment: Freshwater Duration: 72 hours		
12.2	Persistence and degradability	Using lab conditions, the half-life times of hydrolysis at pH 4, pH7 and pH9 was estimated as higher than 1 year at 25°C. It should be noted that potassium permanganate is well known as a strong oxidizing agent. Its stability would be probably considerably	Hydrolysis		

		shorter in contact with oxidizable substances as it could be the case of in real environmental conditions. The experiment with the phthalate buffer illustrates this.		
12.3	Bio-accumulative potential	Not applicable, Log Pow of the mixture not available. The study does not need to be conducted if the substance is inorganic. BCF mixture-not available		
12.4	Mobility in soil	Unlikely. Partition coefficient n-octanol/water is not available.		
12.5	PBT/vPvB assessment	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.		
12.6	Other adverse effects	This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms. This product contains substances, which may cause adverse long-term effects to the aquatic environment.		

SECTION 13		DISPOSAL CONSIDERATIONS		
13.1	Product/ Packaging disposal	If possible, recycle to supplier or approved recycling company. If not (e.g., designated as waste), dispose of in accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005. Material is a special waste under UK legislation. Treat empty containers in the same way as the product. If possible, wash out thoroughly and recycle		
	Waste treatment-relevant information	Product is covered by the regulations on hazardous waste. HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity HP 8 – Corrosive HP 10 – Toxic for reproduction HP 14 – Ecotoxic. Dispose of contents/container to an approved waste disposal plant. Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste. Fresh product-Irritant-HP 4, ecotoxic -HP14. Spent product- Once product is spent, all of the KMnO <sub>4</sub> is converted to MnO <sub>2</sub> .		
	EWG code	15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED 15 02 03 Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02 15 02 02* Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances 15 01 10* Packaging containing residues of or contaminated by dangerous substances		
	Sewage disposal-relevant information	See above		
	Other disposal recommendations	Packaging containing residues of the product must be disposed of similarly to the product. Fresh product-Irritant-HP4, Ecotoxic-HP14		

SECTION 14		TRANSPORT INFORMATION			
14.1	United Nations number (ADR, IMDG, IATA)	UN 3077	14.2	Proper shipping name (ADR, IMDG, IATA)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (POTASSIUM PERMANGANATE)
14.3	Transport class(s) (ADR, IMDG, IATA)	9	14.4	Packing group (ADR, IMDG, IATA)	III
14.5	Environmental hazards (ADR, IMDG, IATA)	The product should not be marked as a marine pollutant	14.6	Special procedures (ADR, IMDG, IATA)	 
14.7	Transport in bulk	Not applicable	14.8	Classification code M7	Ems F-A, S-F
Additional information	These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA). - ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport. IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport. IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport. This product is within scope of the regulations of transport of dangerous goods.				

SECTION 15		REGULATORY INFORMATION
15.1	Safety, health and environmental regulations/legislat	<i>Restrictions for application:</i> Restricted to professional users. People under the age of 18 shall not be exposed to this product. Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.



	ion specific for the substance or mixture	<p><i>Demands for specific education:</i> No specific requirements. SEVESO - Categories / dangerous substances: E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper tier): 500 tonnes</p> <p><i>Regulation on drug precursors:</i> potassium permanganate is included (Subcategory 2B)</p> <p><i>Sources:</i> Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work. Working Conditions Act 1998 and latest Working Conditions Decree of 01-01-2021. Major Accident Hazards Decree 2015. Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste. Council Regulation (EC) No 273/2004 on drug precursors. 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 (CLP).</p> <p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).</p>
15.2	Chemical safety assessment	No

SECTION 16		OTHER INFORMATION	
	Further information	The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)	
		Complies with COSHH Regulations	
	Hazard statements referred to in sections 2-15		
	H272	May intensify fire; oxidiser	H373 May cause damage to the brain through prolonged or repeated exposure by inhalation.
	H302	Harmful if swallowed	H400 Very toxic to aquatic life
	H314	Causes severe skin burns and eye damage	H410 Toxic to aquatic life with long lasting effects.
	H361d	Suspected of damaging the unborn child	H319 Causes severe eye irritation
	The full text of identified uses as mentioned in section 1	LCS "IS" = Industrial uses: Uses of substances as such or in preparations at industrial sites PROC 26 = Handling of solid inorganic substances at ambient temperature PROC 9 = Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC 14 = Tableting, compression, extrusion, pelletisation, granulation PROC 5 = Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PC 3 = Air care products.	
	Abbreviations and acronyms	<p>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service CE = Conformité Européenne (European conformity) CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level  EINECS = European Inventory of Existing Commercial chemical Substances ES = Exposure Scenario EUH statement = CLP-specific Hazard statement EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer (IARC) IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SCL = A specific concentration limit SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVBC = Unknown or variable composition, complex reaction products or of biological materials VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative</p>	
	Additional information	<p>The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP). The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP). According to Annex I CLP Regulation is a mixture classified as a skin irritant, with irreversible effects on the eye and dangerous for the environment. The mixture was tested on skin corrosion by OECD on the eye and dangerous for the environment. The mixture was tested on skin corrosion by OECD method 435 (In vitro Membrane Barrier Test Method for Skin Corrosion), according to the results of the test it was evaluated as a non-corrosive. By this method skin irritation and the effects on the eyes and therefore the risks are evaluated according to the calculation method (Annex I, section 3.2 and 3.3).</p> <p>2.14 Oxidising solids Properties of the mixture-test according to UN Handbook Test Criteria Division 5.1 section 34.4.1-not classified.</p> <p>3.1 Acute Toxicity Calculation method (generic concentration limits).</p> <p>3.2 Skin Irritation According to study "Jasorb P-10: The Corrositex Assay" (method OECD 435) the test item was considered to be NON-CORROSIVE. Sofnofil contains less hazardous components and are therefore considered to be non-corrosive. Skin irritation was not tested by this method, so the mixture is classified as an irritant.</p> <p>3.3 Serious eye damage/Eye irritation Calculation method (generic concentration limits).</p> <p>4.1 Hazardous to the aquatic environment Summation method: Table 4.1.2: Classification of a mixture for long-term hazards, based on the summation of the concentrations of classified components (M X 10X Chronic I)</p>	

		+ Chronic 2 >= 25% = Chronic 2.
	Other Information	The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products. It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification. Key literature references and sources of data REACH Regulation (consolidated version 1.6. 2015) CLP regulation (consolidated version 1. 6. 2015) ECHA Dissemination portal Safety Data Sheets of suppliers of ingredients
	Prepared by	Dr Patricia Wormald, Cambridge Environmental Assessments; <a href="mailto:patricia.wormald@cea-res.co.uk">patricia.wormald@cea-res.co.uk</a>
	Date of issue	28 June 2023
	This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific problems	