

# **Safety Data Sheet**

# According to Annex II to REACH -Regulation (EU) 2020/878 and to Annex II to UK REACH

# **IMPORTANT**

Read this SDS before handling and disposing of this product and pass this information on to employees, customers and users of this product.

## **IDENTIFICATION**

## **Product Identifier**

Product Name	ImpressPLUS-5 Alginate Fast Set
1.2 Relevant identified uses of the substance of mixture and uses advised against	

Product Use	(SU22) professional uses: Public domain (administration, education,		
	entertainment, services, craftsmen); (SU20) Health services;		
Restricted Use	None known		
Description	Dental Product		

1.3 Supplier of the Safety Data Sheet

Company Name	Perfection Plus Ltd
Company Address	6 Westwood Court, Brunel Road, Totton, Hants. SO40 3WX. UK
Company Phone No.	+44 (0) 2380 866 677
Website	www.perfectionplus.com
Telephone	0044 (0) 2380 866677
Email	Regulatory@perfectionplus.com
Email address of	Regulatory@perfectionplus.com
Competent Person	

**Emergency telephone number** 

Emergency telephone	0044 (0) 230 866 677
number	(8am – 5pm Monday to Friday)

# 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

2.1.2. Classification - EC	Eye Irrit. 2: H319
1272/2008	STOT Re 2: H373

## 2.2 Label Elements

Hazard Pictograms		
Signal Word	Warning	
Hazard Statement	Eye Irrit. 2: H319 – Causes serious eye irritation.	
	STOT RE 2: H373 – May cause damage to organs through prolonged or	
	repeated exposure	
	EUH – Contains: SPEARMINT EXTRACT. May produce and allergic reaction.	
Precautionary Statement:	P260 - Do not breathe dust	
Prevention	P270 – Do not eat, drink or smoke when using this product	
	P280 - Wear eye protection/face protection	
Precautionary Statement:	P280: Wear eye protection/face protection.	
Response	P337+P313 – If eye irritation persists: Get medical advice/attention	
Contains:	Diatomite	
2.2 01 1 1		

## Other hazards

Other hazards	On the basis of available data, the product does not contain any PBT or vPvB
	in percentage greater than 0.1%
	The product does not contain substances with endocrine disrupting properties
	in concentration ≥ 0.1%.



## **Further information**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

# 3. **COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2 Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC	REACH	CONC.	Classification
			No.	Registration Number	(%w/w)	
Diatomite	01-211- 9488518-22	68855- 54-9	272- 489-0		70 <u>&lt;</u> x <85	STOT RE 2:H373
Dipotassium Hexafluorotitanate	01- 2119978268- 20-0006	16919- 27-0	240- 969-9		1.0≤ x <2.0	Acute Tox. 4:H302 Eye Dam. 1:H318
Spearmint Extract		84696- 51-5	283- 656-2		1.0≤ x <2.0	Skin Sens. 1B: H317 Aquatic Chronic 2: H411
3.6-BIS(Diethylamino)-9-[2- (Ethoxycarbonyl)Phenyl]Xanthylium Chloride		2390-63-8	219- 233-6	01- 2120107345- 66	0.001 <u>&lt;</u> x< 0.005	Acute Tox.3: H301 Acute Tox 4: H332 Eye Dam 1: H318 Aquatic Acute 1: H400 M=100 Aquatic Chronic 1: H410 M=10

## 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

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Inhalation	Remove to open air. If the subject stops breathing administer artificial respiration. Get	
	medical advice/attention immediately.	
Eye Contact	Remove contact lenses, if present. Wash immediately with plenty of water for at least 15	
	minutes, opening the eyelids fully. If problem persists, seek medical advice.	
Skin contact	Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated	
	clothing before using again.	
Ingestion	Get medical advice/attention immediately. Do not induce vomiting. Do not administer	
	anything not explicitly authorised by a doctor.	

## 4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

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

Inhalation	Information not available
Eye Contact	Information not available
Skin contact	Information not available
Ingestion	Information not available

# **General information**

If you feel unwell, seek medical advice (show the label where possible).	
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## 5. FIRE FIGHTING MEASURES

## 5.1 Extinguishing media

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray

## 5.2 Special hazards arising from the substance or mixture

Do not breathe combustion products

## 5.3 Advice for firefighters

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always water full fire prevention gear. Collect extinguishing water to prevent it from draining in to the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Wear normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

#### 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust. Avoid breathing vapours/mists/gases. Wear suitable protective equipment (including personal protective equipment referred to under section 8 of this SDS) to prevent any contamination of skin, eyes and personal clothing. These indications apply or both processing staff and those involved in emergency procedures.

## 6.2 Environmental precautions

This product must not penetrate into the sewer system or come in to contact with surface water or ground water.

#### 6.3 Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Check compatibility for container material section 7. Contaminated material should be disposed of in compliance with the provisions set forth in section 13.

## 6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

# 7.2 Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well-ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

# 7.3 Specific end use(S)

Information not available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

## 8.1.1 Exposure Limit Values

Dipotassium hexfluorotitanate		
Predicted no-effect concentration - PNEC		
Normal value in fresh water	0.02 mg/l	
Normal value in marine water	0.002 mg/l	



Normal value for fresh water sediment	24.45 mg/kg/d	
Normal value for marine water sediment	4.89 mg/kg/d	
Normal value for marine water, intermittent	0.11 mg/l	
release		
Normal value of STP microorganisms	1.5 mg/l	
Normal value for the terrestrial compartment	19.1 mg/kg/d	
Health – Derived no-effect level – DNFL/DMFL		1

Route of exposure	Effects in consumers. Acute local	Acute systemic	Chronic Local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
Skin		37.5 mg/kg		37.5 mg/ kg		75 mg/kg		75 mg/kg
		bw/d		bw/d		bw/d		bw/d
Inhalation						5.2 mg/m3	5.2 mg/kg	5.2 mg/kg

	Diatomite							
Predicted n	o-effect concentr	ation - PNEC						
Normal valu	Normal value of STP microorganisms 100 mg/l							
Health – De	Health – Derived no-effect level – DNEL/DMEL							
Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic Local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				18.7 mg/kg/d				
Inhalation				0.05 mg/m3				0.05 mg/m3

VND - hazard identified but no DNEL/PNEC available. NEA - no exposure expected. NPI - no hazard identified; LOW = low hazard; MED = medium hazard; HIGH = high hazard.

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment. The above values are not TLVs, but guide values, to be used for particles that do not have their own TLV and that are insoluble or poorly soluble in water and have low toxicity.

# 8.2 Exposure controls







# 8.2.1 Appropriate engineering controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

## 8.2.2 Individual protection measures

Skin protection	Wear category II professional long-sleeved overalls and safety footwear (see
	Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and
	water after removing protective clothing.
Eye/face protection	Wear airtight protective goggles (see standard EN 16321).
Hand protection	In the case of prolonged contact with the product, protect the hands with
	penetration-resistant work gloves (see standard EN 374).
	Work glove material must be chosen according to the use process and the
	products that may form. Latex gloves may cause sensitivity reactions.
Respiratory protection	Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be
	defined according to the outcome of risk assessment (see standard EN 149).



## 8.2.3 Environmental Exposure controls

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Appearance	Powder	Vapour pressure	Not available
Colour	Orange	Relative vapour density	Not applicable
Odour	Spearmint	Density and/or relative density	2.3g/cm <sup>3</sup>
рН	Not applicable	Partition coefficient: n- octanol/water	Not applicable
Melting point	Not available	Autoignition temperature	Not applicable
Freezing point	Not available	Solubility	Insoluble in water
Initial boiling point	Not available	Decomposition temperature	Not available
Flash point	Not applicable.	Kinematic viscosity	Not applicable
Flammability (solid, gas)	Not flammable	Particle characteristics	Not available
Lower explosive limit	Not applicable	Auto-ignition temperature	Not applicable
Upper explosive limit	Not applicable		

#### 9.2. Other information

# 9.2.1 Information with regard to physical hazard classes

Information	Information not available			
9.2.2	9.2.2 Other safety characteristics			
Information	on not available			

# 10. STABILITY AND REACTIVITY

10.1	Reactivit	<del></del> y		
		There are no particular risks of reaction with other substances in normal conditions of use.		
10.2	Chemical	l stability		
		The product is stable under normal conditions of use and storage		
10.3	Possibility of hazardous reactions			
		The powders are potentially explosive when mixed with air.		
10.4	Condition	ns to avoid		
		Avoid environmental dust build-up.		
10.5	Incompa	tible materials		
		Information not available.		
10.6	Hazardo	us decomposition products		
		Information not available		

## 11. TOXICOLOGICAL INFORMATION

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information	Information not available
Information on likely routes of exposure	Information not available
Delayed and immediate effects as well as chronic effects from short and	Information not available
long-term exposure	



Interactive effects	Information not available
Acute toxicity	
ATE (inhalation) of the mixture:	Not classified (no significant component)
ATE (oral) of the mixture	≥2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)
DIPOSTASSIUM HEXAFLUOROTITANTE	
LD50 (Oral):	324 mg/kg OECD 401

3,6-BIS(DIETHYLAMINO)-9-[2-(ETHOXYCARBONYL)PHENYL]XANTHYLIUM CHLORIDE	
LD50 (Oral):	>50 mg/kg OECD 423

DIATOMITE	
LD50 (Oral):	>2000 mg/kg OECD 401

Skin corrosion/irritation	Does not meet the classification criteria for this hazard class
Serious eye damage/irritation	Causes serious eye irritation
Respiratory of skin sensitisation	May produce an allergic reaction. Contains SPEARMINT EXTRACT
Germ cell mutagenicity	Does not meet the classification criteria for this hazard class
Carcinogenicity	Does not meet the classification criteria for this hazard class
Reproductive toxicity	Does not meet the classification criteria for this hazard class
STOT-single exposure	Does not meet the classification criteria for this hazard class
STOT-repeated exposure	May cause damage to organs
Aspiration hazard	Does not meet the classification criteria for this hazard class

# 11.2 Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

# 12. ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

# 12.1 Toxicity

	LC50-for Fish	172 mg/l/96h OECD 203
	EC50 - for Crustacea.	48.2 mg/l/48h OECD 203
Dipotassium	EC50 - for Algae / Aquatic	11 mg/l/72h OECD 211
Hexafluorotitante	Plants	
	EC10 - for Algae / Aquatic	1.4 mg/l/72h OECD 201
	Plants	
	Chronic NOEC for Crustacea	10 mg/l OECD 211
3,6-BIS(DIETHYLAMINO)-9-	EC50 - for Crustacea.	0.12 mg/l/48h OECD 202
[2-(ETHOXYCARBONYL)	EC50 - for Algae / Aquatic	0.0033 mg/l/72h OECD 201
PHENYL]XANTHYLIUM	Plants	
CHLORIDE	LC50-for Fish	>100mg/l/96h OECD 203
Diatomite	EC50 - for Crustacea.	>100mg/l/48h OECD 202
	EC50 - for Algae / Aquatic	>100mg/l/72h OECD 201
	Plants	



## 12.2 Persistence and degradability

3,6-BIS(DIETHYLAMINO)-9-[2-(ETHOXYCARBONYL) PHENYL]XANTHYLIUM CHLORIDE	NOT rapidly degradable. 5%/28d, OECD 301B
Dipotassium hexfluorotitanate	Degradability: Information not available
Diatomite	Degradability: Information not available

#### 12.3 Bio accumulative potential

Information not available

## 12.4 Mobility in soil

Information not available

## 12.5 Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage
greater than 0.1%.

#### 12.6 Other adverse effects

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

## 12.7 Other adverse affects

No data is available on this product.

## 13. **DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods

Dispose of in compliance with all local and national regulations.		
General inform	mation	

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

## **Disposal Methods**

Disposal must be performed through an authorised waste management firm, in compliance
with national and local regulations.

## Disposal of packaging

Contaminated packaging must be recovered or disposed of in compliance with national
waste management regulations.

## 14. TRANSPORT INFORMATION

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1 UN number

	Not applicable.
14.2 UN prop	per shipping name

# Not applicable.

# 14.3 Transport hazard class(es)

ADR/RID	Not applicable.
Subsidiary risk	Not applicable.
IMDG	
Subsidiary risk	Not applicable.
IATA	
Subsidiary risk	

#### 14.4 Packing group

Packing Group Not applicable.	
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## 14.5 Environmental hazards

Environmental hazards	Not applicable.
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## 14.6 Special precautions for user

Not applicable.

# 14.7 Maritime transport in bulk according to IMO instruments n bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

#### 15. REGULATORY INFORMATION

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Contained substance

Point	75	
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## Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

<u>Substances in Candidate List (Art. 59 REACH)</u>: On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH): None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

<u>Substances subject to the Rotterdam Convention: None</u>

Substances subject to the Stockholm Convention: None

<u>Healthcare controls:</u> Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

## 15.2 Chemical Safety Assessment

A chemical safety assessment has not been performed for the preparation/for the
substances indicated in section 3.

# 16. OTHER INFORMATION

# Other information

Text of Hazard Statements in Section 2 and 3

Acute toxicity, category 3
Acute toxicity, category 4
Specific target organ toxicity - repeated exposure, category 2
Serious eye damage, category 1
Eye irritation, category 2
Skin sensitization, category 1B
Hazardous to the aquatic environment, acute toxicity, category 1
Hazardous to the aquatic environment, chronic toxicity, category 1
Hazardous to the aquatic environment, chronic toxicity, category 2
Toxic if swallowed.
Harmful if swallowed.
Harmful if inhaled.
May cause damage to organs through prolonged or repeated exposure.
Causes serious eye damage.
Causes serious eye irritation.
May cause an allergic skin reaction.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects.



#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile

#### **Further information**

The information used in this SDS is believed to be correct however, the information is provided without any warranty, neither expressed nor implied, regarding its correctness.

This SDS is relevant for large quantities of product, the instructions for safe use of quantities typically used during a normal procedure is as referenced in the Instructions for Use.

The conditions or methods for handling, storage, lone use and/or in combination with other products and disposal are beyond our control.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This SDS was prepared and is to be used only for this product. If the product is used as a component in or in combination with another product, this SDS information may not be applicable.