



SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Revision date: March 2022.

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

1.1. Product identifier

Product name Alginate Slow Set 500g

Product number 404-055

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

Identified uses Alginate for body casting

1.3. Details of the supplier of the safety data sheet

Manufacturer / Supplier PotteryCrafts Ltd / Tiranti
Campbell Road
Stoke
Stoke-on-Trent.
ST4 4ET
Tel 44 (0)1782 745000
sales@potteryCrafts.co.uk / Enquiries@tiranti.co.uk

1.4. Emergency telephone number

Emergency telephone +44(0) 1782 745000 Office Hours 08:30 – 16:30 hrs Mon-Friday.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

Classification of the mixture is based on the results of an in vitro assay conducted in accordance with the guidelines provided by OCSE (OECD Test Guideline 437 resp. EU Method B.47 – Bovine Corneal Opacity and Permeability (BCOP) Test Method) and GLP certified - Good Laboratory Practices. For more information refer to section 11.

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards







SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2 Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 1% - < 3%	Dipotassium hexafluorotitanate	CAS: 16919-27-0 EC: 240-969-9 REACH No.: 01-21199782 68-20-XXXX	 3.1/4/Oral Acute Tox. 4 H302  3.3/1 Eye Dam. 1 H318
>= 1% - < 3%	Paraffin oil	CAS: 8042-47-5 EC: 232-455-8 REACH No.: 01-21194870 78-27-XXXX	 3.10/1 Asp. Tox. 1 H304
>= 1% - < 3%	Trisodium orthophosphate	CAS: 7601-54-9 EC: 231-509-8 REACH No.: 01-21194898 00-32-XXXX	 3.8/3 STOT SE 3 H335  3.2/2 Skin Irrit. 2 H315  3.3/2 Eye Irrit. 2 H319

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

Treatment: None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

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sales@pottery crafts.co.uk / Enquiries@tiranti.co.uk

Wear personal protection equipment.
 Remove persons to safety.
 See protective measures under point 7 and 8.
 For emergency responders:
 Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 Retain contaminated washing water and dispose it.
 In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
 Don't use empty container before they have been cleaned.
 Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
 See also section 8 for recommended protective equipment.
 Advice on general occupational hygiene:
 Contaminated clothing should be changed before entering eating areas.
 Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.
 Incompatible materials:
 None in particular.
 Instructions as regards storage premises:
 Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

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Dipotassium hexafluorotitanate - CAS: 16919-27-0

OEL Type	TWA		Duration	STEL		Duration	Notes	Country
No data available								

Paraffin oil - CAS: 8042-47-5

OEL Type	TWA		Duration	STEL		Duration	Notes	Country
AGW	5 mg/m ³		8h	20 mg/m ³		15min	Respirable	GERMANY
MAK	5 mg/m ³		8h	20 mg/m ³		15min	Respirable	GERMANY
TLV	5 mg/m ³		8h	10 mg/m ³		15min		ROMANIA

Trisodium orthophosphate - CAS: 7601-54-9

OEL Type	TWA		Duration	STEL		Duration	Notes	Country
No data available								



DNEL Exposure Limit Values

Dipotassium hexafluorotitanate - CAS: 16919-27-0

Worker Professional: 5.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 5.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 5.2 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 75 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 75 mg/kg bw/d - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Consumer: 37.5 mg/kg bw/d - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Consumer: 37.5 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Paraffin oil - CAS: 8042-47-5

Consumer: 93 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 35 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 40 mg/kg/d - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 220 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 160 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Trisodium orthophosphate - CAS: 7601-54-9

Consumer: 7.66 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 17.87 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 70 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Dipotassium hexafluorotitanate - CAS: 16919-27-0

Target: Fresh Water - Value: 0.131 mg/l
Target: Marine water - Value: 0.131 mg/l
Target: Freshwater sediments - Value: 24.45 03
Target: Marine water sediments - Value: 4.89 03
Target: Microorganisms in sewage treatments - Value: 1.5 mg/l
Target: Soil (agricultural) - Value: 19.1 mg/kg
Target: intermittent release - Value: 0.108 mg/l

8.2. Exposure controls

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Eye protection:

Wear airtight protective goggles.

Protection for skin:

Wear professional overalls and safety footwear.

Protection for hands:

Protect hands with work gloves.

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Respiratory protection:

Particle filter device (DIN EN 143).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered (e.g. TLV-TWA).

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

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Properties	Value	Method:	Notes
Appearance and colour:	Powder,white	--	--
Odour:	Characteristic	--	--
Odour threshold:	Not available	--	--
pH:	Not Relevant	--	--
Melting point / freezing point:	Not available	--	--
Initial boiling point and boiling range:	Not Relevant	--	--
Flash point:	Not available	--	--
Evaporation rate:	Not available	--	--
Solid/gas flammability:	Not available	--	--
Upper/lower flammability or explosive limits:	Not available	--	--
Vapour pressure:	Not Relevant	--	--
Vapour density:	Not available	--	--
Relative density:	0.2-0.5 g/cm3	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	Not available	--	--
Partition coefficient (n-octanol/water):	Not Relevant	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	Not Relevant	--	--
Viscosity:	Not Relevant	--	--
Explosive properties:	Not Relevant	--	--
Oxidizing properties:	Not Relevant	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	Not available	--	--
Fat Solubility:	Not available	--	--
Conductivity:	Not available	--	--
Substance Groups relevant properties	Not available	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Avoid moisture and high temperature.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

a) acute toxicity

Not classified

b) skin corrosion/irritation

Not classified

Test: In vivo - Based on available data, the classification criteria are not met - Source: (Patch test, study report 2018).

c) serious eye damage/irritation

Not classified

Test: In vitro - Based on available data, the classification criteria are not met - Source:

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(Bridging principle, OECD 437 resp. EU Method B.47, GLP, study report 2019).

- d) respiratory or skin sensitisation
Not classified
- e) germ cell mutagenicity
Not classified
- f) carcinogenicity
Not classified
- g) reproductive toxicity
Not classified
- h) STOT-single exposure
Not classified
- i) STOT-repeated exposure
Not classified
- j) aspiration hazard
Not classified

Toxicological information of the main substances found in the product:

Dipotassium hexafluorotitanate - CAS: 16919-27-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 324 mg/kg - Source: (OECD 401, ECHA dossier).

b) skin corrosion/irritation:

Species: Rabbit - Based on available data, the classification criteria are not met - Source: (OECD 404, MSDS supplier).

c) serious eye damage/irritation:

Species: Rabbit - Eye Corrosive - Source: (OECD 405, MSDS supplier).

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: Guinea pig - Based on available data, the classification criteria are not met - Source: (OECD 406, MSDS supplier).

e) germ cell mutagenicity:

Test: In vitro - Species: Salmonella Typhimurium - Negative - Source: (OECD 471, MSDS supplier).

Test: In vitro - Positive - Source: (OECD 487, MSDS supplier).

Test: In vitro - Negative - Source: (OECD 476, MSDS supplier).

Test: In vivo - Species: Rat - Negative - Source: (OECD 474, MSDS supplier).

Paraffin oil - CAS: 8042-47-5

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 5 mg/l - Duration: 4h - Source: (OECD 403, ECHA dossier).

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: (similar or equivalent to OECD 402, ECHA dossier).

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: (similar or equivalent to OECD 401, ECHA dossier).

j) aspiration hazard:

Positive - Source: (MSDS supplier).

Trisodium orthophosphate - CAS: 7601-54-9

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 0.83 mg/l - Duration: 4h - Source: (ECHA dossier).

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg - Source: (OECD 420, GLP, ECHA dossier).

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Skin Irritant - Source: (OECD 402, ECHA dossier).

b) skin corrosion/irritation:

Eye Irritant - Source: (MSDS supplier)

c) serious eye damage/irritation:

Based on available data, the classification criteria are not met - Source: (MSDS supplier)

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Based on available data, the classification criteria are not met - Source: (MSDS supplier)

h) STOT-single exposure:

Route: Inhalation - Respiratory Tract Irritant - Source: (MSDS supplier)

SECTION 12: Ecological Information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Not classified for environmental hazards

Based on available data, the classification criteria are not met

Dipotassium hexafluorotitanate - CAS: 16919-27-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 172 mg/l - Duration h: 96h (OECD 203, Danio rerio, ECHA dossier).

Endpoint: EC50 - Species: Daphnia 48.2 mg/l - Duration h: 48h (OECD 203, Daphnia magna, ECHA dossier).

Endpoint: IC50 - Species: Algae 10.81 mg/l - Duration h: 72h (OECD 201, Pseudokirchneriella subcapitata, ECHA dossier).

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Endpoint: NOEC - Species: Algae 1.31 mg/l (OECD 201, Pseudokirchneriella subcapitata, ECHA dossier).

Trisodium orthophosphate - CAS: 7601-54-9

a) Aquatic acute toxicity:

Endpoint: EC10 - Species: Daphnia 100 mg/l - Duration h: 48h (OECD 202, Daphnia magna, ECHA dossier).

Endpoint: LC50 - Species: Fish 100 mg/l - Duration h: 96h (OECD 203, Oncorhynchus mykiss, ECHA dossier).

12.2. Persistence and degradability

Dipotassium exafluorotitanate - CAS: 16919-27-0

Biodegradability: Non-readily biodegradable

Paraffin oil - CAS: 8042-47-5

Biodegradability: Persistent and Biodegradable

Trisodium orthophosphate - CAS: 7601-54-9

Biodegradability: Non-readily biodegradable

12.3. Bioaccumulative potential

Not available

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not available

14.3. Transport hazard class(es)

Not available

14.4. Packing group

Not available

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user

Not available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not available

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

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Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 Regulation (EU) 2015/830
 Regulation (EU) n. 286/2011 (ATP 2 CLP)
 Regulation (EU) n. 618/2012 (ATP 3 CLP)
 Regulation (EU) n. 487/2013 (ATP 4 CLP)
 Regulation (EU) n. 944/2013 (ATP 5 CLP)
 Regulation (EU) n. 605/2014 (ATP 6 CLP)
 Regulation (EU) n. 2015/1221 (ATP 7 CLP)
 Regulation (EU) n. 2016/918 (ATP 8 CLP)
 Regulation (EU) n. 2016/1179 (ATP 9 CLP)
 Regulation (EU) n. 2017/776 (ATP 10 CLP)
 Regulation (EU) n. 2018/669 (ATP 11 CLP)
 Regulation (EU) n. 2018/1480 (ATP 13 CLP)
 Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
 Restrictions related to the product:
 No restriction.
 Restrictions related to the substances contained:
 No restriction.
 Provisions related to directive EU 2012/18 (Seveso III):
 Seveso III category according to Annex 1, part 1
 None
 WGK Classification (Water hazard class - Verwaltungsvorschrift wassergefährdende Stoffe)
 WGK1 - Slightly hazardous for water
 Lagerklasse according to TRGS 510:
 LGK11: Combustible solids
 Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:
 None.
 California Proposition 65
 Substance(s) listed under California Proposition 65:
 None.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.
 Substances for which a Chemical Safety Assessment has been carried out:
 Dipotassium hexafluorotitanate
 Trisodium orthophosphate

SECTION 16: Other information

Full text of phrases referred to in Section 3:
 H302 Harmful if swallowed.
 H318 Causes serious eye damage.
 H304 May be fatal if swallowed and enters airways.
 H335 May cause respiratory irritation.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

Main bibliographic sources:
 ECHA – European Chemical Agency
 GESTIS - Information system on hazardous substances of the German Social Accident Insurance
 IARC – International Agency for Research on Cancer
 IPCS INCHEM – International Programme on Chemical Safety
 ISS – Istituto Superiore di Sanità
 PubChem - open chemistry database at the National Institutes of Health (NIH)



The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWA: Time-weighted average

WGK: German Water Hazard Class.

Hazard statements in full

This product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use are outside the supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with. The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of material.

This information relates only to the specific material designated and may not be valid for such material used in combination With any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate And reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or Completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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