SAFETY DATA SHEET

1. Product and Company Identification

Product Identifier	**maxsėt - High Precision Alginate**
Recommended use	Alginate with low dust for dental use.
Recommended restrictions	None known.
Manufacturer information	maxill inc. 80 Elm Street St. Thomas, ON N5R 6C8 CA Phone: 519-631-7370 Fax: 519-531-3388 Website: maxill.com
Supplier	See above.
Emergency Response Number	ChemTel 1-800-255-3924, outside US and Canada, 1-813-248-0585 CANUTEC: 613-996-6666

2. Hazards Identification

Physical hazards	Not classified.
Health hazards	Specific target organ toxicity, repeated exposure Category 2
Environmental hazards	Not classified.
WHMIS 2015 defined hazards	Not classified
Label elements	
Signal word	Warning
Hazard statement	May cause damage to lungs through prolonged or repeated exposure via inhalation.
Precautionary statement	
Prevention	Do not breathe dust. Do no eat, drink or smoke when using this product. Get medical advice / attention if you feel unwell.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
Hazard(s) not otherwise classified (HNOC)	On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%.
Supplemental information	Contains: Diatomaceous earth, soda ash flux-calcined

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Diatomaceous earth, soda ash flux-calcined		68855-54-9	65-80
dipotassium hexafluorotitanate		16919-27-0	1-3

4. First Aid Measures

Inhalation

IF INHALED: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

Skin contact

IF ON SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

Eye contact

IF IN EYES: 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.

Ingestion

Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

Most important symptoms/effects, acute and delayed

For symptoms and effects caused by the contained substances, see Section11.

Indication of immediate medical attention and special treatment needed

Information not available.

5. Fire Fighting Measures

Suitable extinguishing media

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

Unsuitable extinguishing media

None in particular.

Specific hazards arising from the chemical

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

General information

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

Special protective equipment and precautions for firefighters

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

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 the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.
Methods and materials for containment and cleaning up	Use spark-proof mechanical equipment to 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 incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.
Environmental precautions	The product must not penetrate into the sewer system or come into contact with surface water or ground water.

7. Handling and Storage

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.
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.

8. Exposure Controls/Personal Protection

Occupational exposure limits

Components	Type	Value
Diatomaceous earth, soda ash flux-calcined		
Cristobalite		

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear airtight protective goggles (see standard EN 166).
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.
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 (see standard EN 149) or equivalent device, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment.
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

Appearance	Powder
Color	Colored
Odor	Characteristic
Odor threshold	Not available.
pH	8 at 20°C (suspension of 10 g of powder per liter of water after 2 min)
Relative density	2,300 Kg/l
Solubility	In water: it reacts to form a hydrophilic gel.

10. Stability and Reactivity

Reactivity	There are no particular risks of reaction with other substances in normal conditions of use. DIPOTASSIUM HEXAFLUOROTITANATE With mineral acids it generates HF.
Possibility of hazardous reactions	No hazardous reactions are foreseeable in normal conditions of use and storage.
Chemical stability	The product is stable in normal conditions of use and storage.
Conditions to avoid	None in particular. However the usual precautions used for chemical products should be respected.
Incompatible materials	DIPOTASSIUM HEXAFLUOROTITANATE Strong acids.
Hazardous 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.
This product may cause functional disorders or morphological mutations after repeated or prolonged exposure and/or may accumulate inside the human body and is thus graded as dangerous.

Components	**Species**	**Test Results**
Dipotassium hexafluorotitanate		
Acute		
Oral		
LD50	Rat	0.324 mg/kg
Inhalation		
LD50		
Dermal		
LD50		

Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	The substance is classified in this hazard class because it contains respirable crystalline silica (cristobalite, CAS 14464-46-1), classified as STOT RE 1, as impurity contained in quantity from 1 to 10 %.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components		Species	Test Results
Dipotassium hexafluorotitanate			
Fish	LC50	Danio rerio	172.4 mg/L, 96 Hours
Crustacea	EC50	Daphnia magna	48.2 mg/L, 48 Hours
Algae/Aquatic Plants	EC50	Pseudokirchnerella subcapitata	10.82 mg/L, 72 Hours
Diatomaceous earth, soda ash flux-calcined			
Fish	LC50	Oncorhynchus mykiss	Exceeds the maximum level of solubility of the substance
Crustacea	EC50	Daphnia magna	Exceeds the maximum level of solubility of the substance
Algae/Aquatic Plants	EC50	Desmodesmus subspicatus	Exceeds the maximum level of solubility of the substance

Persistence and degradability
Diatomaceous earth, soda ash flux-calcined
The product contains exclusively inorganic compounds non-biodegradable

Bioaccumulative potential
Diatomaceous earth, soda ash flux-calcined
The product does not contain any substances expected to be bioaccumulating

Dipotassium hexafluorotitanate
The product has a potential to bioaccumulate in aquatic organisms

Mobility in soil
Diatomaceous earth, soda ash flux-calcined
Mobility: not relevant due to the physical state of the product. The product is insoluble in water.

Other adverse effects Information not available.

13. Disposal Considerations

Waste treatment methods
Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport Information

UN number	Not applicable.
Proper shipping name	Not applicable.
Hazard class	Not applicable.
Packing group	Not applicable.
Environmental hazards	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Information not relevant.

15. Regulatory Information

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

Seveso category	None
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006	None
Substances in Candidate List (Art. 59 REACH)	None
Substances subject to authorisarion (Annex XIV REACH)	None
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012	None
Substances subject to the Rotterdam Convention	None
Substances subject to the Stockholm Convention	None
Healthcare controls	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.
German regulation on the classification of substances hazardous to water (VwVwS 2005)	WGK 1: Low hazard to waters

Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

16. Other Information

Disclaimer	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.
Issue date	14-March-2019
Version #	01
Effective date	14-March-2019
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.