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MASTIDEK FAST CARTRIDGE PART A

Safety Data Sheet

According to U.S.A. Federal Hazcom 2012



2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

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

Classification and Hazard Statement Carcinogenicity, category 2 Eye irritation, category 2 Skin sensitization, category 1 Hazard pictograms:



Signal words:

Warning

Hazard statements: H351 H319 H317

Suspected of causing cancer. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. Causes serious eye irritation. May cause an allergic skin reaction. ΕN



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2. Hazards identification ... / >>

Precautionary s	statements:										
Prevention:		Accessed to an extension of the former									
P261 P202			/ gas / mist / vapours / spray. / precautions have been read and understood.								
P202 P201		Obtain special instructions b									
P280		•	tective clothing / eye protection / face protection.								
P264		Wash the hands thoroughly									
P272		0,	should not be allowed out of the workplace.								
Response:											
P305+P351	+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.									
P308+P313		IF exposed or concerned: Get medical advice / attention.									
P333+P313			skin irritation or rash occurs: Get medical advice / attention.								
P337+P313			eye irritation persists: Get medical advice / attention.								
P302+P352 P363		IF ON SKIN: wash with plen Wash contaminated clothing									
Storage:			j belore reuse.								
P405		Store locked up.									
Disposal:											
P501		Dispose of contents / contai	ner according to applicable law.								
2.2. Other hazard	s										
Environmental	classification as	for Reg. (EC) 1272/2008 (CL	P):								
The product is	classified as haz	ardous for environment purs	uant to the provisions set forth in EC Regulation 1272/2008 (CLP).								
		•									
	nd Hazard State to the aquatic en	ment vironment, chronic toxicity, c	ategory 3 Harmful to aquatic life with long lasting effects.								
Hazard statem H412	zard statements: H412 Harmful to aquatic life with long lasting effects.										
Precautionary s Prevention:	statements:										
P273		Avoid release to the environ	ment.								
Response:											
Storage:											
Disposal:											
P501		Dispose of contents / contai	ner according to applicable law.								
Additional haza											
3. Composit	ion/informa	tion on ingredients									
3.2. Mixtures											
Contains:		• •									
Identification		x = Conc. %	Classification:								
Aminefunction											
INDEX	607-350-00-9	57 ≤ x < 59	Skin sensitization, category 1 H317, Hazardous to the aquatic environment,								
50	412 060 0		chronic toxicity, category 3 H412								
EC CAS	412-060-9 136210-32-7										
TITANIUM DIC											
		1.5 ≤ x < 2	Carcinogenicity, category 2 H351								
EC	236-675-5										
CAS	13463-67-7										
REACH Reg.											
N-(3-(TRIMETH	IOXYSILYL)PR		Cariana and damage address 4 1040. Or a life toward and the later is t								
		1≤x< 1.5	Serious eye damage, category 1 H318, Specific target organ toxicity - single								
EC	217-164-6		exposure, category 3 H335, Skin sensitization, category 1 H317								
CAS	1760-24-3										
REACH Reg.	01-2119970215	5-39									
. <u></u>											



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Acute toxicity, category 4 H302, Skin corrosion, category 1B H314, Serious

eye damage, category 1 H318, Skin sensitization, category 1 H317

3. Composition/information on ingredients ... / >>

3-AMINOPROPYLTRIETHOXYSILANE

INDEX 612-108-00-0 $0.7 \le x < 1$

EC 213-048-4 CAS 919-30-2 REACH Reg. 01-2119480479-24

* There is a batch to batch variation.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

4. First-aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Information not available

5. Fire-fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

Combustion products: COx, NOx and calcium fumes.

5.3. Advice for firefighters

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 FOR FIRE-FIGHTERS

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

Block the leakage if there is no hazard.

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.

6.2. Environmental precautions



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6. Accidental release measures ... / >>

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

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 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

Regulatory References:

USA USA USA	NIOSH-REL OSHA-PEL CAL/OSHA-PEL	NIOSH publication No. 2005-149, 3th printing, 2007. Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000. California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits
		(PELs).
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

				TITANIU	M DIOXIDE	
Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15r	nin	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-	2.5				RESP
OSHA	USA	15				INHAL
CAL/OSHA	USA	10				INHAL
CAL/OSHA	USA	5				RESP

MALEIC ANHYDRIDE							
Threshold Limit	Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-	0.01	0.0025			INHAL	
OSHA	USA	1	0.25				
CAL/OSHA	USA	0.4	0.1				
NIOSH	USA	1	0.25				

8. Exposure controls/personal protection ... / >>

Dibutyltin dilaurate							
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
OEL	EU	0.1		0.2		SKIN	
OSHA	USA	0.1					
CAL/OSHA	USA	0.1		0.2		SKIN	
NIOSH	USA	0.1				SKIN	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

8.2. Exposure 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. Personal protective equipment must comply with current regulations. HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (OSHA 29 CFR 1910.138): 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.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing. EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

ENVIRONMENTAL EXPOSURE CONTROLS

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

HAND PROTECTION: Protect hands with work gloves for protection from chemical agents in nitrile or fluoroelastomer (EN 374-1: 2016) at least type B or higher based on the risk assessment carried out by the company. Breakthrough time> 480 minutes. Material thickness: NITRILE

short contact> 0.38 mm prolonged contact> 0.55 mm FLUOROELASTOMER short contact> 0.50 mm prolonged contact> 1.50 mm

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value		Information
Appearance		pasty liquid		
Colour		as showed in color f	older	
Odour		characteristic		
Odour threshold		not available		
рН		not available		Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)
Melting point / freezing point		not available		
Initial boiling point		not available		
Boiling range		not available		
Flash point	>	93 °C	(199,4 °F)	
Evaporation rate		not available	. ,	



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water

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9. Physical and chemical properties ... / >>

Flammability	not available
Lower inflammability limit	not available
Upper inflammability limit	not available
Lower explosive limit	not available
Upper explosive limit	not available
Vapour pressure	not available
Vapour density	not available
Relative density	1.1 g/cc
Solubility	insoluble in w
Partition coefficient: n-octanol/water	not available
Auto-ignition temperature	not available
Decomposition temperature	not available
Viscosity	not available
Explosive properties	not available
Oxidising properties	not available
0.2. Other information	

Information not available

10. Stability and reactivity

10.1. Reactivity

9

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. 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.

11.1. Information on toxicological effects

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 long-term exposure

Information not available

Interactive effects

Information not available



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11. Toxicological information ... / >>

ACUTE TOXICITY

TITANIUM DIOXIDE LD50 (Oral): LD50 (Dermal): LC50 (Inhalation mists/powders):

- > 5000 mg/kg Ratto
- > 10000 mg/kg Coniglio
- > 6.82 mg/l/4h Ratto

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer Carcinogenicity Assessment:					
13463-67-7 TITANIUM DIOXIDE					
	ACGIH:: A4				
	IARC:2B				
7631-86-9	AMORPHOUS SILICATE HYDRATE				
	IARC:3				
108-31-6	MALEIC ANHYDRIDE				
	ACGIH:: A4				

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

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

TITANIUM DIOXIDE	
LC50 - for Fish	> 1000 mg/l/96h
EC50 - for Crustacea	> 1000 mg/l/48h Daphnia
EC50 - for Algae / Aquatic Plants	> 61 mg/l/72h Pseudokirchneriella subcapitata

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12. Ecological information ... / >>

12.2. Persistence and degradability

TITANIUM DIOXIDE

Solubility in water Degradability: information not available < 0.001 mg/l

12.3. Bioaccumulative 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 \geq than 0,1%.

12.6. Other adverse effects

Information not available

13. Disposal considerations

13.1. 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

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 proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable



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14. Transport information ... / >>

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

Information not relevant

15. Regulatory information

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

U.S. Federal Regulations

TSCA:

All components of this product are listed on US Toxic Substances Control Act (TSCA) Inventory or are exempt from the listing / notification requirements.

Clean Air Act Section 112(b): No component(s) listed.

Clean Air Act Section 602 Class I Substances: No component(s) listed.

Clean Air Act Section 602 Class II Substances: No component(s) listed.

Clean Water Act – Priority Pollutants: No component(s) listed.

Clean Water Act – Toxic Pollutants: No component(s) listed.

DEA List I Chemicals (Precursor Chemicals): No component(s) listed.

DEA List II Chemicals (Essential Chemicals): No component(s) listed.

EPA List of Lists: 313 Category Code: No component(s) listed.

EPCRA 302 EHS TPQ: No component(s) listed.

EPCRA 304 EHS RQ: No component(s) listed.

CERCLA RQ: No component(s) listed.

EPCRA 313 TRI: No component(s) listed.

RCRA Code: No component(s) listed.

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations

Massachussetts:

7631-86-9	AMORPHOUS SILICATE HYDRATE
13463-67-7	TITANIUM DIOXIDE

Minnesota:

7631-86-9 13463-67-7 AMORPHOUS SILICATE HYDRATE TITANIUM DIOXIDE



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15. R

15. Regulatory infe	ormation/>>						
New Jersey: 13463-67-7	TITANIUM DIOXIDE						
<u>New York:</u> No component(s) li	isted.						
Pennsylvania: 7631-86-9 13463-67-7	AMORPHOUS SILICATE HYDRATE TITANIUM DIOXIDE						
California: 7631-86-9	AMORPHOUS SILICATE HYDRATE						
Proposition 65: WARNING! This p	roduct contains chemicals known to the Stat	e of California to cause	e cancer and birth d	lefects or reprodu	ctive harm.		
13463-67-7 TIT	ANIUM DIOXIDE						
	NSRL / MADL (µg/c	lav)					
Hazard type	Ora		Inhalation	Intravenous	Note		
International Regul Substances subjec None	lations t to exportation reporting pursuant to Regula	tion (EU) 649/2012:	_				
Substances subject	t to the Rotterdam Convention:						
None							
None	t to the Stockholm Convention:						
16. Other infor	mation						
Text of hazard (H)	indications mentioned in section 2-3 of the sl	neet:					
H351	Suspected of causing cancer.						
H302	Harmful if swallowed.						
H314	Causes severe skin burns and	eve damage.					
H318	Causes serious eye damage.	-)					
H319	Causes serious eye irritation.						
H335	May cause respiratory irritation						
H317	May cause an allergic skin rea						
H412	Harmful to aquatic life with long						
LEGEND: - 313 CATEGORY	CODE: Emergency Planning and Communit	/ Right-to Know Act Se	ction 313 Category	/ Code			
	greement concerning the carriage of Dangel						
- ATE: Acute Toxic	ity Estimate						
- CAA 112 ® RMP	TQ: Risk Management Plan Threshold Quan	tity (Clean Air Act Sect	ion 112®)				
	bstract Service Number		,				
- CE50: Effective c	oncentration (required to induce a 50% effec	t)					
- CERCLA RQ: Re	portable Quantity (Comprehensive Environm		nsation, and Liabilit	ty Act)			
	- CLP: Regulation (EC) 1272/2008						
	cement Administration						
- EmS: Emergency							
	mental Protection Agency	A of					
	ncy Planning and Community Right-to Know		w (Section 202 Cat	ogony Codo)			
	TPQ: Extremely Hazardous Substance Thre	-	• •	/			
	RQ: Extremely Hazardous Substance Report		1 304 Calegory Coo	ue)			
- EFURA 313 IRI: - GHS: Clobally Ha	Toxics Release Inventory (Section 313 Cate	yory Code)					
- 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
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REACH: Regulation (EC) 1907/2006



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16. Other information ... / >>

- REL: Recommended exposure limit
- 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.
- TSCA: Toxic Substances Control Act
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website - Hazard Comunication Standard (HCS 2012)
- Hazard Comunication Standa
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.