10/20/2022

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: MF 16, 32, 128 & 640

Product Name: Meca-Dia Diamond Extender

Reference #:

Company Name: Mark V Laboratory
18 Kripes Rd.
East Granby, CT 06026

Phone Number: +1 (800)243-9776

Web site address: www.markvlab.com

Emergency Contact: CHEMTREC

Phone Number: +1 (800)424-9300

Intended Use: Industrial polishing

2. HAZARDS IDENTIFICATION

Toxic To Reproduction, Category 1B

GHS Signal Word:	Danger
GHS Hazard Phrases:	H360 - May damage fertility or the unborn child .
GHS Precaution Phrases:	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases:	P308+313 - IF exposed or concerned: Get medical attention/advice.
GHS Storage and Disposal Phrases:	P405 - Store locked up. P501 - Dispose of contents and containers in accordance with local, regional, national, and international regulations.
Potential Health Effects (Acute and Chronic):	Reproductive system. May damage fertility or the unborn child .
Inhalation:	Prolonged or repeated contact may cause central nervous system depression. Prolonged or repeated exposure may cause nausea, headaches, and vomiting.
Skin Contact:	Prolonged or repeated exposure may cause skin irritation.
Eye Contact:	Prolonged or repeated contact may cause eye irritation.
Ingestion:	May cause harm to the unborn child. Overexposure may cause female and male reproductive disorder(s) based on tests with laboratory animals.

Medical Conditions Generally Presumed human reproductive toxicant.

Aggravated By Exposure:

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1303-96-4	Sodium tetraborate decahydrate	< 0.5 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:	Show this safety data sheet to the doctor in attendance.
In Case of Inhalation:	No harmful effects are expected. If discomfort persists, remove to fresh air.
In Case of Skin Contact:	Wash with plenty of soap and water. If skin irritation or rash occurs, seek medical advice/attention.
In Case of Eye Contact:	Flush thoroughly with water until irritation subsides, lifting upper and lower lids to facilitate cleansing. If eye irritation persists, get medical advice/attention.
In Case of Ingestion:	Rinse mouth with water. Do NOT induce vomiting or give anything by mouth to an unconscious person. Get medical aid.
Signs and Symptoms Of Exposure:	Effects on Fertility: Other measures of fertility.
Note to Physician:	Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Pt:	> 200.00 F (93.3 C) Method Used: Estimate
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	NA
Suitable Extinguishing Media:	Use foam, dry chemical, or carbon dioxide.
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. Use water spray to cool surfaces exposed to fire, to disperse vapors, and to protect personnel attempting to stop any leakage.
Flammable Properties and Hazards:	No data available.
Hazardous Combustion Products:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, Borane/boron oxides.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	Prevent liquid from entering sewers, water courses or low areas. Advise authorities if liquid has entered sewers, water courses or has contaminated soil.
Steps To Be Taken In Case Material Is Released Or Spilled:	Contain spilled liquid with absorbent material. Soak up with inert absorbant material. Take up absorbed material and place into suitable container for disposal. Store in a partly filled closed container, until disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing spray or mist. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.
Precautions To Be Taken in Storing:	Store in a cool, dry, well-ventilated area away from incompatible substances. between between 19 - 27C Keep container tightly closed. Materials/Coatings Compatibility: Glass, carbon steel, stainless steel, polyethylene, polypropylene, polyester. Testing for compatibility with specific plastic materials is recommended.
Other Precautions:	Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1303-96-4	Sodium tetraborate decahydrate	TWA: 10 mg/m3 (Vacated)	TLV: 5 mg/m3	No data.

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
1303-96-4	Sodium tetraborate decahydrate	Ontario, CA	TWA: 2 mg/m3; STEL: 6 mg/m3 (Inhalable aerosol)	
		Québec, CA	TWA: 5 mg/m3	
		Mexico OEL	TWA: 5 mg/m3; TWA: 1 mg/m3 (); STEL: ()	
		NIOSH	TWA: 5 mg/m3	

Recommended Exposure Limits:	Do not dispose of waste materials in drains.
Respiratory Equipment (Specify Type):	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level, an approved respirator must be worn.
Eye Protection:	Safety glasses.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Engineering Controls (Ventilation etc.):	Provide sufficient local exhaust and general ventilation to maintain exposure below OEL, especially for spraying operations producing mists. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practices.
Environmental Exposure Controls:	Prevent liquid from entering sewers, water courses or low areas. Advise authorities if liquid has entered sewers, water courses or has contaminated soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[ ] Gas [X] Liquid [ ] Solid
Appearance and Odor:	Appearance: Thin. Yellow. Fluid, Odor: Woody.
pH:	NA
Melting Point:	32.00 F (0.0 C)
Boiling Point:	212.00 F (100.0 C)
Flash Pt:	> 200.00 F (93.3 C) Method Used: Estimate
Evaporation Rate:	Slower than water No data available.
Flammability (solid, gas):	
Explosive Limits:	LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	NA
Vapor Density (vs. Air = 1):	Heavier than air
Specific Gravity (Water = 1):	1.0 gm/cc
Density:	NA
Bulk density:	NA
Solubility in Water:	Soluble

Saturated Vapor Concentration:	NA
Octanol/Water Partition Coefficient:	No data.
Percent Volatile:	> 90.0 %
VOC / Volume:	NA
Autoignition Pt:	NA
Decomposition Temperature:	NA
Viscosity:	1 - 5 CPS
Particle Size:	NA
Heat Value:	NA
Corrosion Rate:	NA

10. STABILITY AND REACTIVITY

Reactivity:	Not reactive at normal temperatures and pressures.
Stability:	Unstable [ ] Stable [X]
Conditions To Avoid - Instability:	High temperatures, Ignition sources, Incompatible materials.
Incompatibility - Materials To Avoid:	Strong oxidizing agents, Testing for compatibility with specific plastic materials is recommended.
Hazardous Decomposition or Byproducts:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: carbon.
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

Sensitization:	Not expected to be a respiratory sensitizer. Not expected to be a skin sensitizer.
Chronic Toxicological Effects:	May damage fertility. May damage the unborn child.
Carcinogenicity/Other Information:	No component of this product is present at levels greater than or equal to 0.1% that is identified as a probable or human carcinogen by ACGIH, IARC, NTP, or OSHA.

11. TOXICOLOGICAL INFORMATION

Toxicological Information:	Epidemiology: No information available. Teratogenicity: CAS# 1303-96-4: May cause harm to the unborn child. Reproductive Effects: CAS# 1303-96-4: Experiments have shown reproductive toxicity effects on laboratory animals. Mutagenicity: No information available. Neurotoxicity: No information available. CAS# 1303-96-4: Acute Toxicity, LD50, Oral, Rat, 5650. MG/KG. Result: Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day {4)}. Acute Toxicity, LD50, Dermal, Rabbit, > 2000. MG/KG. Result: Paternal Effects: Testes, epididymis, sperm duct. Acute Toxicity, LD50, Inhalation, Rat, 2.030 MG/L.
Irritation or Corrosion:	May cause eye and skin irritation.
Symptoms related to Toxicological Characteristics:	No data available.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 1303-96-4 Sodium tetraborate decahydrate n.a. n.a. n.a. n.a.

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: No information available.
Physical: No information available.
CAS# 1303-96-4:
LC50, Fathead Minnow (Pimephales promelas), 340.0 - 780.0 MG/L, 96 H.
LC50, Water Flea (Daphnia magna), 1085. - 1402. MG/L, 48 H.
Effective concentration to 50% of test organisms., Freshwater Algae (Monoraphidium contortum), 2.600 - 21.80 MG/L, 96 H.

Results of PBT and vPvB assessment: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.
DOT Hazard Class:
UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.
UN Number:
Hazard Class:
TDG Classification:

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not Regulated.
UN Number:
Hazard Class:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

15. REGULATORY INFORMATION

(Superfund Amendments and Reauthorization Act of 198

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1303-96-4	Sodium tetraborate decahydrate	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1303-96-4	Sodium tetraborate decahydrate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
1303-96-4	Sodium tetraborate decahydrate (CAS# 1303-96-4).	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 1-69; Japan ISHL: No; Korea ECL: Yes - KE-03483; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: Yes; Israel HSL: No; Germany WHCS: Yes 37; Switzerland Giftliste 1: Yes - G-2621; Switzerland INNS: No; REACH: Yes - (R), (P), C1, M2, T2; Kyoto GHG: No; Rotterdam: No; Stockholm: No

Regulatory Infor

nown to the state of California to cause cancer or reproductive chemical known to the State of California to cause birth defects odium Tetraborate Decahydrate

16. OTHER INFORMATION

Revision Date: 05/11/2017

Additional Information About 02/11/2016 - Updated SDS to new format.

This Product: 07/14/2016 - Updated Section(s) 2, 3, 4 & 11.

01/01/2018 - Updated Section(s) 2, 3, 4, 11, & 15.

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