

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)
Issue date: 7/19/2022 Revision date: 7/19/2022 Version: 1.0 (M)SDS Number: 1352984

## **SECTION 1: Identification**

### 1.1. Product identifier

Product form : Mixture
Product name : MetaDi Fluid

Product code : 40-6016, 40-6032, 40-6064-085

### 1.2. Recommended use and restrictions on use

Recommended use : Laboratory chemicals
Restrictions on use : None known

### 1.3. Supplier

Buehler

41 Waukegan Rd Lake Bluff, IL 60044 T 1-847-295-6500 custserv@buehler.com

### 1.4. Emergency telephone number

Emergency number : Global Access Code: 334545; Americas" +1 760 476 3962; Middle East/Africa: +1 760 476 3959;

Asia Pacific +1 760 476 3960; Europe +1 760 476 3961

## **SECTION 2: Hazard identification**

### 2.1. Classification of the substance or mixture

#### Classification (GHS CA)

Reproductive toxicity, Category 1B H360 May damage fertility or the unborn child.

Full text of H-statements: see section 16

### 2.2. GHS Label elements, including precautionary statements

## **GHS CA labelling**

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : H360 - May damage fertility or the unborn child.

Precautionary statements (GHS CA) : 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.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

 $\ensuremath{\mathsf{P501}}$  - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

No additional information available

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## 2.4. Unknown acute toxicity (GHS CA)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Borax (B4Na2O7.10H2O)	Borax / Borax (Na2(B4O7).10H2 O) / Sodium tetraborate decahydrate / Disodium tetraborate, decahydrate / Sodium tetraborate decahydrate / Disodium tetraborate decahydrate / Sodium borate decahydrate / Sodium borate decahydrate / Sodium borate, decahydrate / Sodium borate, decahydrate / SODIUM BORATE DECAHYDRATE / Borax decahydrate / Disodium tetraborate, anhydrous / SODIUM BORATE	CAS-No.: 1303-96-4	0 – 0.5	Eye Irrit. 2, H319 Repr. 1B, H360 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

## **SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

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### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Chronic symptoms : Suspected of damaging fertility.

## 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Not determined.

## 5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire : Toxic fumes may be released

### 5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not handle until all safety precautions have been read and understood.

### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle

until all safety precautions have been read and understood. Wear personal protective equipment.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke

when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

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## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

Borax (B4Na2O7.10H2O) (1303-96-4)			
Canada (Alberta) - Occupational Exposure Limits			
OEL TWA	1 mg/m³ (Borates, tetra, sodium salts)		
OEL STEL [ppm]	3 ppm (Borates, tetra, sodium salts)		
Canada (Quebec) - Occupational Exposure Limits			
VEMP (OEL TWA) [ppm]	1 ppm (Benzyl chloride)		
Canada (British Columbia) - Occupational Exposure Limits			
OEL TWA	2 mg/m³ (inhalable (Borate compounds, inorganic)		
OEL STEL	6 mg/m³ (inhalable (Borate compounds, inorganic)		
Canada (Manitoba) - Occupational Exposure Limits			
OEL TWA	2 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)		
OEL STEL	6 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)		
Canada (New Brunswick) - Occupational Exposure Limits			
OEL TWA	5 mg/m³		
Canada (Newfoundland and Labrador) - Occupation	nal Exposure Limits		
OEL TWA	2 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)		
OEL STEL	6 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)		
Canada (Nova Scotia) - Occupational Exposure Lim	its		
OEL TWA	2 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)		
OEL STEL	6 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)		
Canada (Nunavut) - Occupational Exposure Limits			
OEL TWA	2 mg/m³ (inhalable fraction (Borate compounds, inorganic)		
OEL STEL	6 mg/m³ (inhalable fraction (Borate compounds, inorganic)		
Canada (Northwest Territories) - Occupational Expo	osure Limits		
OEL TWA	2 mg/m³ (inhalable fraction (Borate compounds, inorganic)		
OEL STEL	6 mg/m³ (inhalable fraction (Borate compounds, inorganic)		
Canada (Ontario) - Occupational Exposure Limits			
OEL TWA	2 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)		
OEL STEL	6 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)		
Canada (Prince Edward Island) - Occupational Expo	Canada (Prince Edward Island) - Occupational Exposure Limits		
OEL TWA	2 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)		
OEL STEL	6 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)		
Canada (Saskatchewan) - Occupational Exposure Limits			
OEL TWA	2 mg/m³ (inhalable fraction (Borate compounds, inorganic)		
OEL STEL	6 mg/m³ (inhalable fraction (Borate compounds, inorganic)		

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Borax (B4Na2O7.10H2O) (1303-96-4)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	2 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)	
ACGIH OEL STEL	6 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)	
ACGIH chemical category	Not Classifiable as a Human Carcinogen	

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

## 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

## Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

## Personal protective equipment symbol(s):







## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : watery liquid.
Colour : Yellow
Odour : Characteristic
Odour threshold : No data available
pH : 10 – 10.3
Relative evaporation rate (butylacetate=1) : No data available

Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available Melting point : Not applicable

Freezing point : 0 °C
Boiling point : 100 °C
Flash point : > 93.3 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable

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Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : Soluble.

Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : No data available Explosive limits : No data available

### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.

Conditions to avoid : None under recommended storage and handling conditions (see section 7).

Incompatible materials : Strong bases. Strong acids. Strong oxidizing agents.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be

produced. On combustion, forms: carbon oxides (CO and CO2).

Hardening time: : No additional information available

### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.
Acute toxicity (dermal) : Not classified.
Acute toxicity (inhalation) : Not classified.

Borax (B4Na2O7.10H2O) (1303-96-4)	
LD50 oral rat	3493 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
ATE CA (oral)	3493 mg/kg bodyweight
Skin corrosion/irritation	: Not classified.

pH: 10-10.3 Serious eye damage/irritation pH: 10-10.3 Respiratory or skin sensitization pH: 10-10.3 Respiratory or skin sensitization pH: 10-10.3 Respiratory or skin sensitization pH: 10-10.3 Respiratory pH: 10-10.3 Res

Reproductive toxicity : May damage fertility or the unborn child.

STOT-single exposure : Not classified.

## Borax (B4Na2O7.10H2O) (1303-96-4)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified.
Aspiration hazard : Not classified.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Chronic symptoms : Suspected of damaging fertility.

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### **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

acute)

: Not classified.

Hazardous to the aquatic environment, long-term

erm : Not classified.

(chronic)

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone : Not classified.

## **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

In accordance with TDG / DOT / IMDG / IATA

## **14.1. UN number**

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

**TDG** 

Transport hazard class(es) (TDG) : Not applicable

DOT

Transport hazard class(es) (DOT) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

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### 14.4. Packing group

Packing group (TDG) : Not applicable
Packing group (DOT) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### TDG

No data available

#### DOT

No data available

#### **IMDG**

No data available

### IATA

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

## 15.1. National regulations

## Borax (B4Na2O7.10H2O) (1303-96-4)

Listed on the Canadian DSL (Domestic Substances List)

### Dipropylene glycol (25265-71-8)

Listed on the Canadian DSL (Domestic Substances List)

### Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

#### Borax (B4Na2O7.10H2O) (1303-96-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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### Dipropylene glycol (25265-71-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## Water (7732-18-5)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory)

**Listed on NZIoC (New Zealand Inventory of Chemicals)** 

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### **SECTION 16: Other information**

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Full text of H-statements:	
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.

Safety Data Sheet (SDS), Canada

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