

## SAFETY DATA SHEET

Issuing Date 01-Mar-2017 Revision Date 01-Mar-2017 Revision Number 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name MetaDi Fluid

**Product Code(s)** 40-6016, 40-6032, 40-6064-085

(M)SDS Number 1352984\_A

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory Use Only

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Buehler

Manufacturer Address 41 Waukegan Rd

Lake Bluff, IL 60044 www.buehler.com

Phone number +1 847 295 6500

E-mail Address custserv@buehler.com

Emergency telephone number

Global Access Code: 334545

Americas: +1 760 476 3962 Asia Pacific: +1 760 476 3960 Middle East/Africa: +1 760 476 3959 Europe: +1 760 476 3961

## 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Reproductive Toxicity Category 1B

GHS Label elements, including precautionary statements

**Emergency Overview** 



#### Signal word

**Danger** 

#### Hazard Statements

May damage fertility or the unborn child



Appearance Yellow Physical state Liquid Odor Woody

#### **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Hazards not otherwise classified (HNOC)**

Not applicable

#### **Other information**

No information available

### **Interactions with Other Chemicals**

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical name	CAS No	Weight-%	Trade Secret
Water	7732-18-5	60 - 80%	*
Dipropylene glycol	25265-71-8	20 - 40%	*
Sodium borate decahydrate	1303-96-4	< 0.5%	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

#### First aid measures

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a



physician.

**Skin contact** Wash with soap and water.

**Inhalation** Remove to fresh air.

**Ingestion** Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an

unconscious person.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. Wear personal protective clothing (see section

8).

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and

**Effects** 

No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. Dry chemical, CO2, alcohol-resistant foam or water spray.

#### Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

## Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

**Explosion Data** 

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Take precautionary measures against static discharges. Do

not touch or walk through spilled material.

**Environmental precautions** 

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage **Environmental precautions** 

if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled

material. Dike far ahead of liquid spill for later disposal.

Take precautionary measures against static discharges. Dam up. Soak up with inert Methods for cleaning up

absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapors/spray. Handling

Conditions for safe storage, including any incompatibilities

Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Storage

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with

the particular national regulations. Store in accordance with local regulations.

None known based on information supplied. **Incompatible Products** 

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium borate decahydrate	STEL: 6 mg/m³ inhalable	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
1303-96-4	particulate matter		
	TWA: 2 mg/m³ inhalable		
	particulate matter		

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992)



#### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**Hygiene Measures**Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product. Contaminated work clothing should not be allowed

out of the workplace. Regular cleaning of equipment, work area and clothing is

recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and Chemical Properties**

Physical state Liquid

Appearance Yellow Odor Woody

Color No information available Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

**pH** No data available

Melting / freezing pointNo data availableNone known

Boiling point / boiling range 100°C °C / 212 °F Flash Point 93°C C / 199 F

Evaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone known

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
No data available
No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Specific Gravity 1

Water Solubility Soluble in water

Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known No data available None known **Autoignition temperature** No data available **Decomposition temperature** None known No data available None known Kinematic viscosity Dynamic viscosity No data available None known

Explosive properties No data available Oxidizing properties No data available

**Other Information** 

Softening Point No data available VOC Content (%) No data available



No data available

**Particle Size** 

**Particle Size Distribution** 

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to avoid**

Heat, flames and sparks.

#### **Incompatible materials**

None known based on information supplied.

#### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
7732-18-5			
Dipropylene glycol	= 14850 mg/kg (Rat)	> 20mL/kg (Rabbit)	-
25265-71-8			
Sodium borate decahydrate	= 2660 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	> 2.03 mg/L ( Rat ) 4 h
1303-96-4	= 3493mg/kg ( Rat )		- ' '

#### Information on toxicological effects

**Symptoms** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.



Mutagenic Effects No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium borate decahydrate		Group 2A		X
1303-96-4		•		

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive toxicity**Contains a known or suspected reproductive toxin.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

Chronic Toxicity Contains a known or suspected carcinogen. Contains a known or suspected reproductive

toxin. Possible risk of irreversible effects.

Target Organ Effects Reproductive system.

**Aspiration Hazard** No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Not applicable

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Dipropylene glycol 25265-71-8		24h LC50: > 5000mg/L (Carassius auratus)	EC50 = 10000 mg/L16 h	·

## Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available

#### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal methods This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

**Contaminated Packaging**Dispose of contents/containers in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste
Sodium borate decahydrate	Toxic
1303-96-4	

#### 14. TRANSPORT INFORMATION

DOTNOT REGULATEDProper Shipping NameNON REGULATED

Hazard Class N/A

TDG NOT REGULATED

MEX NOT REGULATED

ICAO NOT REGULATED

IATA NOT REGULATED

Proper Shipping Name NON REGULATED

IMDG/IMO NOT REGULATED

RID NOT REGULATED

ADR NOT REGULATED

ADN NOT REGULATED

## 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## **US Federal Regulations**

**SARA 313** 



Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute Health HazardNoChronic Health HazardYesFire HazardYesSudden release of pressure hazardNoReactive HazardNo

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

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Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Dipropylene glycol			Χ		1
25265-71-8					
Sodium borate decahydrate	X	Х	Χ		Χ
1303-96-4					İ

## **International Regulations**

Component	Carcinogen Status	Exposure Limits
Sodium borate decahydrate		Mexico: TWA 5 mg/m <sup>3</sup>
1303-96-4 ( < 0.5% )		_

#### Canada

## **WHMIS Hazard Class**

Not determined

## 16. OTHER INFORMATION

NFPA Health Hazards 0 Flammability 0 Instability 0 Physical and Chemical Hazards - HMIS Health Hazards 1\* Flammability 0 Physical Hazard 0 Personal Protection

Chronic Hazard Star Legend \* = Chronic Health Hazard

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#### **Revision Note**

No information available

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text



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**End of Safety Data Sheet** 

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