

## **SAFETY DATA SHEET**

Issuing Date 01-Mar-2017 Revision Date 27-May-2020 Revision Number 2

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

Product identifier

Product Name MetaDi Ultra Paste

**Product Code(s)** 40-1-6301, 40-1-6303, 40-1-6305, 40-1-6307, 40-1-6309

(M)SDS Number 1353237\_A

Other means of identification

**UN-No.** UN3077

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

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)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

#### GHS Label elements, including precautionary statements



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#### **Emergency Overview**

Signal word

Danger

#### **Hazard Statements**

Causes skin irritation

Causes serious eye damage

May cause damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways



**Appearance** Varies

Physical state Paste

**Odor** Odorless

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

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray

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

None

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

#### Skin

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: 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	30 - 60%	*
Diamond	7782-40-3	1 - 30%	*
n-Octadecylamine	124-30-1	5 - 15%	*
Dipropylene glycol	25265-71-8	3 - 10%	*
Polyethylene glycol phenyl ether phosphate	39464-70-5	1 - 5%	*
Alcohols, C12-20, ethoxylated	68526-94-3	1 - 5%	*
BHT	128-37-0	< 1%	*

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

## 4. FIRST AID MEASURES

#### First aid measures

<u>General Advice</u> Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue

rinsing. Do not rub affected area. Seek immediate medical attention/advice.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult,

(trained personnel should) give oxygen.

**Ingestion** Rinse mouth immediately and drink plenty of water.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and** 

**Effects** 

Burning sensation. Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.



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## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Dry chemical, CO2, water spray or regular foam. Dike fire-control water for later disposal.

#### Unsuitable extinguishing media

Do not use halogenated extinguishing agents or foam. Do not scatter spilled material with high pressure water streams.

## Specific hazards arising from the chemical

Some may burn but none ignite readily. Some may be transported hot.

Uniform Fire Code Irritant: Solid

**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.

## 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions Do not touch or walk through spilled material. Stop leak if you can do it without risk.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions** 

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Take up with sand, earth or other non-combustible absorbent material. With clean shovel

place material into clean, dry container and cover loosely; move containers from spill area.



## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

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

Keep out of the reach of children. Protect from moisture. Store away from other materials.

**Incompatible Products** Strong acids. Strong oxidizing agents. Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

**Exposure Guidelines** The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure

limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
BHT	TWA: 2 mg/m³ inhalable fraction	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
128-37-0	and vapor	-	_

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. Long sleeved clothing. Impervious gloves.

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 Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state Paste
Appearance Varies Odor

Color No information available Odor Threshold No information available

Property Values Remarks Method

pН No data available None known 75°C None known Melting / freezing point > 205°C None known Boiling point / boiling range Flash Point > 121°C None known **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None 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 knownSpecific GravityNo data availableNone known

Water Solubility Insoluble

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

**Explosive properties**No data available **Oxidizing properties**No data available

#### **Other Information**

Softening Point

VOC Content (%)

Particle Size

No data available

No data available

No data available

**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**

None known based on information supplied.

#### Incompatible materials

Strong acids. Strong oxidizing agents. Strong bases.

#### **Hazardous Decomposition Products**

None known based on information supplied.



Odorless

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. Aspiration into lungs can produce severe lung damage. May cause

pulmonary edema. Pulmonary edema can be fatal.

**Eye contact** Specific test data for the substance or mixture is not available. (based on components).

Causes serious eye damage. Severely irritating to eyes. May cause irreversible damage to

eyes.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components). Prolonged contact may cause redness and irritation. Repeated exposure

may cause skin dryness or cracking.

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

irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if

swallowed and enters airways.

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	Inhalation LC50
Water	> 90 mL/kg (Rat)		
7732-18-5			
n-Octadecylamine	= 2395 mg/kg (Rat)		
124-30-1			
Dipropylene glycol	= 14850 mg/kg (Rat)	> 20mL/kg (Rabbit)	
25265-71-8			
BHT	= 890 mg/kg (Rat)	> 2000 mg/kg (Rat)	
128-37-0			

#### Information on toxicological effects

Symptoms Erythema (skin redness). May cause redness and tearing of the eyes. May cause

blindness. Burning. Difficulty in breathing. Coughing and/ or wheezing. Asthma-like and/ or

skin allergy-like symptoms.

#### 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** Contains no ingredient listed as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
BHT		Group 3		
128-37-0		•		

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity No information available.



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

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure. Based on

classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from

chronic or repeated exposure. (STOT RE).

Chronic Toxicity Aspiration may cause pulmonary edema and pneumonitis. Avoid repeated exposure.

Prolonged exposure may cause chronic effects. Carcinogenic potential is unknown.

Target Organ Effects Respiratory system. Eyes. Skin. Central Vascular System (CVS). Digestive 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

ATEmix (oral) 6,500.00 mg/kg

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Diamond 7782-40-3		96h LC50: > 100 mg/L (Oncorhynchus mykiss)		
n-Octadecylamine 124-30-1		96h LC50: 1.0 - 10.0 mg/L (Brachydaniorerio)	EC50 = 3 mg/L 8 hEC50 = 3 mg/L 120 h	
Dipropylene glycol 25265-71-8		24h LC50: > 5000mg/L (Carassius auratus)	EC50 = 10000 mg/L16 h	
BHT 128-37-0	72h EC50: = 6 mg/L(Pseudokirchneriellasu bcapitata) 72hEC50: > 0.42 mg/L(Desmodesmussubspic atus)	. ,	EC50 = 7.82 mg/L 5 min EC50 = 8.57 mg/L 15 min EC50 = 8.98 mg/L 30 min	

## Persistence and Degradability

No information available.

#### Bioaccumulation

Chemical Name	Log Pow
n-Octadecylamine	6
124-30-1	
BHT	4.17
128-37-0	

#### 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.

## 14. TRANSPORT INFORMATION

DOT

**UN-No.** UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group

Description UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

**Emergency Response Guide** 171

Number

TDG

UN Number UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

Description UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

MEX

**UN-No.** UN3077

**Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group II

**Description** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

**ICAO** 

UN-No. UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group

Description UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

<u>IATA</u>

UN Number UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III
ERG Code 9L

**Description** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

<u>IMDG</u>



UN Number UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III
EmS-No. F-A, S-F

Description UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III,

MARINE POLLUTANT

RID

**UN-No.** UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III
Classification code M7

**Description** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

**ADR** 

**UN-No.** UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III
Classification code M7
Tunnel restriction code (E)

**Description** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

ADN

**UN-No.** UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III
Classification code M7

Special Provisions 274, 335, 601

Description UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

Hazard Labels 9 Limited Quantity 5 KG

## 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA Complies

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

**IECSC** 

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

#### **US Federal Regulations**

#### <u>SARA 313</u>

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 Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden release of pressure hazard No
Reactive Hazard No



#### **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			X		
25265-71-8					
BHT	Χ	X	X		
128-37-0					

## International Regulations

Component	Carcinogen Status	Exposure Limits
Diamond		Mexico: TWA 2 mg/m <sup>3</sup>
7782-40-3 ( 1 - 30% )		_
BHT		Mexico: TWA 10 mg/m <sup>3</sup>
128-37-0 ( < 1% )		Mexico: STEL 20 mg/m <sup>3</sup>

## Canada WHMIS Hazard Class

Not determined

## **16. OTHER INFORMATION**

NFPA Health Hazards 3 Flammability 0 Instability 0 Physical and Chemical Hazards - HMIS Health Hazards 3 \* Flammability 0 Physical Hazard 0 Personal Protection

Chronic Hazard Star Legend \* = Chronic Health Hazard

Prepared By Product Stewardship

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Issuing Date01-Mar-2017Revision Date27-May-2020

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** 

