

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier

Product Name MetaDi Oil-Based Suspension
Product Code(s) 40-6538, 40-6539, 40-6540, 40-6541, 40-6542, 40-6543, 40-6544, 40-6545, 40-6546
(M)SDS Number 1353241_A

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory use
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

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Asia Pacific: +1 760 476 3960
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2. Hazards Identification


Classification

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

Aspiration Toxicity	Category 1
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GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Signal Word	DANGER		
hazard statements	May be fatal if swallowed and enters airways		
			
Appearance	Varies	Physical state	Suspension
			Odor Characteristic

Precautionary Statements - Prevention

Obtain special instructions before use

Precautionary Statements - Response

None

INGESTION

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting

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

Chemical name	CAS No.	Weight-%	Trade secret
Petroleum distillates, hydrotreated light	64742-47-8	65 - 95%	*
Quaternium-18 bentonite	68953-58-2	2 - 6%	*
Diamond	7782-40-3	0 - 1%	*
Quartz	14808-60-7	< 0.1%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. First Aid Measures

FIRST AID MEASURES

<u>General advice</u>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
<u>Eye Contact</u>	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
<u>Skin Contact</u>	Wash with soap and water.
<u>INHALATION</u>	Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Seek immediate medical attention/advice. Delayed pulmonary edema may occur.
<u>INGESTION</u>	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
<u>Self-Protection of the First Aider</u>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. 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 Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

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.

Unsuitable Extinguishing Media

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

Specific Hazards Arising from the Chemical

No information available.

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 Ensure adequate ventilation. Use personal protective equipment as required.

OTHER INFORMATION Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions

Environmental Precautions See section 12 for additional ecological information.

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 Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and Storage

Precautions for Safe Handling

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

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

Incompatible products None known based on information supplied.

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
Petroleum distillates, hydrotreated light 64742-47-8	TWA: 5 mg/m ³ STEL: 10 mg/m ³ (as oil mist)	TWA: 5 mg/m ³ (as oil mist)	
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	TWA: 0.1 mg/m ³ (vacated)	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust

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 No special protective equipment required.

Skin and Body Protection No special protective equipment required.

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 Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties
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Physical and chemical properties

Physical state	Suspension	Odor	Characteristic
Appearance	Varies	Odor Threshold	No information available
Color	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	No data available		
Melting / freezing point	No data available	None known	
Boiling point / boiling range	218°C °C / 424 °F		
Flash Point	> 94°C C / 201 f		
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific gravity	0.80		
Water Solubility	Insoluble in water		
Solubility in Other Solvents	no data available	None known	
Partition coefficient: n-octanol/water	No 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	No data available
VOC Content (%)	No data available
Particle Size	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

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

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

INHALATION

Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

Eye Contact

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

Skin Contact

Repeated exposure may cause skin dryness or cracking.

INGESTION

Specific test data for the substance or mixture is not available. 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	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4h
Quaternium-18 bentonite 68953-58-2	> 5000 mg/kg (Rat)	-	> 12.6 mg/L (Rat) 4 h
Quartz 14808-60-7	= 500 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

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
Quartz 14808-60-7	A2	Group 1	Known	X

Reproductive Toxicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Chronic toxicity	Aspiration may cause pulmonary edema and pneumonitis.
Target organ effects	Respiratory System. Central Vascular System (CVS).
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 (inhalation-dust/mist)
25.20 mg/l

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)
Petroleum distillates, hydrotreated light 64742-47-8		96h LC50: = 45 mg/L (Pimephales promelas) 96h LC50: = 2.2 mg/L (Lepomis macrochirus) 96h LC50: = 2.4 mg/L (Oncorhynchus mykiss)		96h LC50: = 4720 mg/L
Diamond 7782-40-3		96h LC50: > 100 mg/L (Oncorhynchus mykiss)		

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.

14. Transport information

<u>DOT</u>	Not regulated
Proper shipping name	NON REGULATED
Hazard class	N/A
<u>TDG</u>	NOT REGULATED
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
Proper Shipping Name	NON REGULATED
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	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 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 contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Quartz - 14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Quartz 14808-60-7	X	X	X		X

International regulations

Component	Carcinogen Status	Exposure limits
Diamond 7782-40-3 (0 - 1%)		Mexico: TWA 2 mg/m ³
Quartz 14808-60-7 (< 0.1%)		Mexico: TWA= 0.1 mg/m ³

CANADA

WHMIS Hazard Class

Not Determined

16. Other Information

NFPA	Health hazards 2	flammability 1	Instability 0	Physical and chemical hazards - PERSONAL PROTECTION X
HMIS	Health hazards 2	flammability 1	Physical hazard 0	

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Disclaimer

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End of Safety Data Sheet