



## MATERIAL SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: METADI SUPREME POLYCRYSTALLINE DIAMOND SUSPENSION

DYE-FREE METADI SUPREME POLYCRYSTALLINE DIAMOND SUSPENSION

METADI SUPREME MONOCRYSTALLINE DIAMOND SUSPENSION

IDENTIFICATION NUMBER:

METADI SUPREME POLYCRYSTALLINE DIAMOND SUSPENSION: 40-6627 thru 40-6636,  
40-6630-032 thru 40-6635-032, 40-6629-128 thru 40-6634-128

DYE-FREE METADI SUPREME POLYCRYSTALLINE DIAMOND SUSPENSION: 40-6730 thru 40-6732 & 40-6733,  
40-6730-032 thru 40-6733-032, 40-6731-128 & 40-6733-128

METADI SUPREME MONOCRYSTALLINE DIAMOND SUSPENSION: 40-6530 thru 40-6534,  
40-6530-032 thru 40-6534-032, 40-6530-128 thru 40-6534-128

PRODUCT USE/CLASS: Polish

SUPPLIER:

BUEHLER, a division of Illinois Tool Works Inc.

41 WAUKEGAN ROAD

LAKE BLUFF, IL 60044

EMERGENCY: 800-424-9300

INFORMATION: 847-295-6500

PREPARER: Technical Department, 847-295-6500

PREPARE DATE: 2/07/2013, 07 February 2013

## SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION: Not applicable for GHS classification

GHS LABEL ELEMENTS: Symbol - None

Signal Word - None

Hazard Risk Statement - Not hazardous

HEALTH HAZARD:

Skin: Mild irritation. Repeated contact may cause dermatitis.

Eyes: Liquid may cause moderate irritation, redness, tearing.

Inhalation: Drowsiness, dizziness, nasal and respiratory irritation.

Ingestion: Harmful if swallowed. May cause liver abnormalities, kidney damage, central nervous system effects.

PHYSICAL/CHEMICAL HAZARD: Not Applicable.

FIRE AND EXPLOSION HAZARD: Not Applicable.

ENVIRONMENTAL HAZARD: Not Applicable

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

IF PRESENT, IARC, NTP, AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.

CAS NUMBER	CHEMICAL NAME	WT/WT%
7732-18-5	Water	30% – 70%
57-55-6	Propylene Glycol	20% - 60%
9038-95-3	Polyalkylene Glycol Monobutyl Ether	0% - 5%
7782-40-3	Diamond Powder	0% - 1%

## SECTION 4 – FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water until irritation subsides, lifting upper and lower lids to facilitate cleansing. If irritation persists, seek medical assistance.

SKIN CONTACT: Wash thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: Remove individual to fresh air. If breathing is difficult, administer oxygen and seek medical attention.

INGESTION: Do not induce vomiting. Keep person at rest and seek immediate medical attention.

NOTES TO PHYSICIAN: Treat symptomatically.

## SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray to cool surfaces exposed to fire to disperse vapors and to protect personnel attempting to stop any leakage. Extinguish the fire with foam, dry chemical or carbon dioxide.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, various oxides of carbon. spread of flame.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Eliminate source of ignition.

Prevent liquid from entering sewers, water courses or low areas.

Keep personnel/public away. If possible, shut off source of release without further hazard.

Advise authorities if liquid has entered sewers, water courses or has contaminated soil.

Contain spilled liquid with absorbent material.

Take up absorbed material and place into suitable containers for disposal.

Consult an expert on disposal of recovered material to ensure conformity to local regulations.

Dispose of in accordance with federal, state, and local regulations.

## SECTION 7 – HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient

TRANSPORT TEMPERATURE: Ambient

STORAGE PRESSURE: Atmospheric

ELECTROSTATIC ACCUMULATION HAZARD: Not Applicable

MATERIALS/COATINGS COMPATIBILITY: Glass, carbon steel, stainless steel, polyethylene, polypropylene, polyester, aluminum

MATERIALS/COATINGS UNSUITABLE: Strong oxidizing agents (acids), zinc, galvanized steel. Testing for compatibility with specific plastic materials is recommended.

GENERAL NOTES: Keep container closed. Store in well-ventilated area away from incompatible materials. Do not expose liquid or vapors to open flame, heat or sources of ignition. Empty product containers may contain residues (liquid, vapor).

Do not re-use empty containers without adequate cleaning.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS Number	ACGIH		OSHA		Skin
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	
7732-18-5	N.E.	N.E.	N.A.	N.E.	NO
57-55-6	N.E.	N.E.	N.E.	N.E.	NO
9038-95-3	N.E.	N.E.	N.E.	N.E.	NO
7782-40-3	N.E.	N.E.	15 mg/m <sup>3</sup> as nuisance dust		NO

For open systems (liquid or spray) where contact is likely, wear safety glasses with side shields, long sleeves and plastic protective gloves.

Provide sufficient local exhaust and general ventilation to maintain exposure below OEL, especially for spraying operations producing mists.

Where concentrations in air may exceed the OEL and the engineering practices are not adequate to accomplish exposure reduction, approved respirators may be necessary to prevent overexposure by inhalation.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT (DEG C): >100°C (est.)

AUTOIGNITION TEMPERATURE: No Data

LOWER FLAMMABILITY/EXPLOSION LIMIT: No Data

UPPER FLAMMABILITY/EXPLOSION LIMIT: No Data

PHYSICAL STATE	Thick Fluid	SPECIFIC GRAVITY	1.04 gm/cc
COLOR	Various	pH	7.5
ODOR	Odorless	BOILING POINT	212 - 400°F (100 - 205°C)
ODOR THRESHOLD	Not Determined	MELTING/FREEZE POINT	-8°F (-22°C)
SOLUBILITY IN H <sub>2</sub> O	Soluble	VAPOR DENSITY	Heavier than Air
PARTITION COEFFICIENT	No Data	VAPOR PRESSURE	Not Determined
PERCENT VOLATILE:	40%	VISCOSITY:	100 – 950 cps
EVAPORATION RATE:	Slower than water		

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

## SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable at normal temperatures and pressure.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous polymerization will not occur.

HAZARDOUS REACTIONS: Not reactive at normal temperatures and pressures

CONDITIONS TO AVOID: Stable at normal temperatures and pressure.

## SECTION 11 – TOXICOLOGICAL PROPERTIES

COMPONENT TOXICOLOGICAL INFORMATION:

SKIN: Low order of toxicity. Frequent or prolonged contact may irritate and cause dermatitis.

EYES: Irritating, but does not injure eye tissue.

INHALATION: Vapor concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects.

INGESTION: Stomach irritation, nausea, vomiting, diarrhea. In humans, overexposure causes liver abnormalities, kidney damage, central nervous system effects.

## SECTION 12 – ECOLOGICAL INFORMATION

COMPONENT ECOLOGICAL INFORMATION:

Not Available

## SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures. This product is not suitable for disposal by landfill, municipal sewers, drains, natural streams or rivers. Waste product must be disposed of via an authorized waste disposal company in accordance with Local and National Waste Disposal Regulations.

## SECTION 14 – TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not regulated for transport.	
DOT TECHNICAL NAME: N.A.	HAZARD SUBCLASS: N.A.
DOT HAZARD CLASS: N.A.	PACKAGING GROUP: N.A.
DOT UN/NA CLASS: N.A.	RESP. GUIDE PAGE:
INTERNATIONAL SHIPPING NAME: Not considered a dangerous good for transport	
INTERNATIONAL ID NUMBER: N.A.	
IMDG CLASS (1°, 2°): N.A.	PACKING GROUP: N.A.
IMDG EMS: N.A.	IATA CLASS (1°, 2°): N.A.

## SECTION 15 – REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65 STATEMENT: NONE
IARC, NTP, OSHA CARCINOGENS: N/A
SARA TITLE III SECTION 313 TOXIC RELEASE INVENTORY (TRI) CHEMICALS: N/A
COMPONENT RCRA CODES: NONE
CERCLA RQ VALUE (MINIMUM): NONE
REACH SUBSTANCE(S) OF VERY HIGH CONCERN: None added or known to be present.
RoHS SUBSTANCE(S): None added or known to be present.
ODS/MONTREAL PROTOCOL SUBSTANCE(S): None added or known to be present.
VOLATILE ORGANIC COMPOUNDS: 0 grams/ltr

## SECTION 16 – OTHER INFORMATION

### HMIS RATINGS

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 7/10/2006

REASON FOR REVISION: Changes from previous revision include:

All Sections: Revised to GHS format

Section 9: Added additional physical properties, Changed Percent Volatile from 60% to 40%.

Section 16: Added HMIS Codes, Added date of previous revision & changes from previous version

### LEGEND:

N.A. – NO INFORMATION

N.E. – NOT ESTABLISHED

N.D. – NOT DETERMINED

ABBREVIATIONS: ACGIH = N.A. - Not Applicable

N.E. - Not Established

N.D. - Not Determined

ACGIH = American Conference of Governmental Industrial Hygienists

OSHA = US Occupational Health and Safety Administration

TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs)

STEL = Short-Term Exposure Limit (15 min)

C = Ceiling Value

PEL = Permissible Exposure Limit

OEL = Occupational Exposure Limit

IDLH = Immediately Dangerous to Life and Health

DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED IN THIS MSDS IS ACCURATE OR IS OBTAINED FROM SOURCES BELIEVED TO BE ACCURATE. HOWEVER, NO LIABILITY, EXPRESSED OR IMPLIED, IS ASSUMED FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

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