MATERIAL SAFETY DATA SHEET

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| SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION |

PRODUCT NAME : BUEHLER DIALLYL PHTHALATE GLASS, DIALLYL PHTHALATE

MINERAL

IDENTIFICATION NUMBER: 20-3330-080, 20-3340-080

PRODUCT USE/CLASS : Molding compound

SUPPLIER:

Buehler, Ltd. 41 Waukegan Road

Lake Bluff, IL 60044 EMERGENCY: 800-424-9300 INFORMATION: 847-295-6500

PREPARER: Technical Department, PHONE: 847-295-6500

PREPARE DATE: 05/20/06; 20 MAY 06

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| SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS |

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT%
01	Carbon Black	1333-86-4	0.1-1.0
02	Titanium dioxide	13463-67-7	1.0-3.0

			EXPOSURE LIMITS	3		
	ACG	ACGIH OSHA		COMPANY		
ITEM	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	3.5 mg/m3	N.E.	3.5 mg/m3	N/E	3.5 mg/m3	NO
02	10.0 mg/m	N.E.	10.0 mg/m3	N.E.	N.E.	NO
(Se	e Section 16	for abbrevia	tion legend)			
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i		SECTION 3	- HAZARDS IDEN	NTIFICATION		į

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EMERGENCY OVERVIEW: Vapors from heated material may be irritating. Contact with heated material can cause thermal burns.

ACUTE EFFECTS - EYE CONTACT: Exposure to hot material may cause thermal burns. Mechanical irritant. Contact may cause tearing and redness.

ACUTE EFFECTS - SKIN CONTACT: Contact with product at elevated temperatures can result in thermal burns. Not known to be an irritant.

ACUTE EFFECTS - INHALATION: Dust or vapors may be slightly irritating to respiratory tract.

ACUTE EFFECTS - INGESTION: May cause nausea and vomiting.

CHRONIC OVEREXPOSURE EFFECTS: *Repeated and prolonged inhalation of graphite or carbon dusts may cause pulmonary fibrosis, emphysema, and pneumoconiosis. the severity of these effects is greatly influenced by the presence of other harmful mineral dusts, most notably crystalline silica.

OTHER INFORMATION: No information.

PRIMARY ROUTE(S) OF ENTRY: Unknown

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| SECTION 4 - FIRST AID MEASURES |

attention, if irritation persists.

SKIN CONTACT: For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing as the damaged flesh can be easily torn.

INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

INGESTION: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

NOTES TO PHYSICIAN: Treat symptomatically.

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| SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 600 F LOWER EXPLOSIVE LIMIT: N.A. (PENSKY-MARTENS C.C.) UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N/a

EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: Finely divided dust in air may present explosion hazard. Prevent dust buildup.

SPECIAL FIREFIGHTING PROCEDURES: Treat as petroleum fire. Wear appropriate approved protective equipment. Avoid directing water stream directly into flame; it may cause frothing with subsequent spread of flame.

| SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Reclaim clean material. Contaminated material should be swept or shoveled into appropriate waste container and disposed of in accordance with applicable federal, state and local regulations.

HANDLING: Minimize dust generation and accumulation. Avoid breathing vapors from heated material.

STORAGE: Keep away from heat and flame.

ENGINEERING CONTROLS: General ventilation usually adequate.

RESPIRATORY PROTECTION: None normally required under general ventilation.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION					
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SKIN PROTECTION: Clean clothing to cover skin. Thermal gloves when handling hot material.					
EYE PROTECTION: Safety glasses. OTHER PROTECTIVE EQUIPMENT: Accessible eye wash and safety shower.					
HYGIENIC PRACTICES: Follow good general industrial safety practices during					
use. Do not smoke or eat during use.					
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES					
BOILING RANGE : N.A. VAPOR DENSITY : Is heavier than air					
ODOR : No appreciable ODOR THRESHOLD : N/A					
APPEARANCE : Grains or flakes EVAPORATION RATE: Is slower than Butyl					
SOLUBILITY IN H2O: Insoluble Acetate FREEZE POINT: N/a SPECIFIC GRAVITY: 1.7543					
FREEZE POINT : N/A SPECIFIC GRAVITY: 1.7543 VAPOR PRESSURE : N/A pH @ 0.0 % : N/A					
PHYSICAL STATE : Solid VISCOSITY : N/A					
COEFFICIENT OF WATER/OIL DISTRIBUTION: N/A					
(See Section 16 for abbreviation legend)					
CECUTION 10 CEARLITEN AND DEACHTUITS					
SECTION 10 - STABILITY AND REACTIVITY					
CONDITIONS TO AVOID: No information.					
INCOMPATIBILITY: No information.					
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon. Aromatic and aliphatic hydrocarbons.					
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.					
STABILITY: This product is stable under normal storage conditions.					
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======================================					
No product or component toxicological information is available.					
SECTION 12 - ECOLOGICAL INFORMATION					
ECOLOGICAL TEST DATA: No information.					
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DISPOSAL METHOD: Material as sold may be disposed of in landfill if local regulations permit. If material becomes contaminated, follow disposal instructions for contaminant.					
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TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not regulated

DOT TECHNICAL NAME: N/A

DOT HAZARD CLASS: N/A HAZARD SUBCLASS: N/A

DOT UN/NA NUMBER: N/A PACKING GROUP: N/A RESP. GUIDE PAGE:

INTERNATIONAL SHIPPING NAME: Not regulated

INTERNATIONAL ID NUMBER: N/A

ADR ITEM NO.: N/A ADR TREMCARD: N/A

SUPPLEMENTAL INFORMATION: No information.

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed, and is considered, under applicable definitions, to meet the following categories: NONE

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 and 40 CFR part 372:

----- CHEMICAL NAME ------ CAS NUMBER WT/WT % IS LESS THAN No SARA Section 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:

The chemical substances in this product are on the TSCA Section 8 Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
----- CHEMICAL NAME ------- CAS NUMBER
No components found.

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

Phthalate compound UNKNOWN
Soda lime borosilicate glass 65997-17-3

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CALIFORNIA PROPOSITION 65:

No Proposition 65 chemicals known to exist in this product.

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: NONE

COMPONENT RCRA CLASSIFICATIONS: Not regulated

COMPONENT RCRA CODES: No information.

CERCLA RQ VALUE (MINIMUM): None known

| SECTION 16 - OTHER INFORMATION |

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 12/07/97

REASON FOR REVISION: New format

ADMINISTRATIVE REVISION DATE: 05/20/03

REASON FOR ADMINISTRATIVE REVISION: Updates to Sections 1, 16

VOLATILE ORGANIC COMPOUNDS (VOCS): 0 grams/ltr

LEGEND: N.A. - No information, N.E. - Not Established,

N.D. - Not Determined

ABBREVIATIONS: ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = US Occupational Safety and Health Administration; UK = United Kingdom; TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs); STEL = Short-Term Exposure Limit (15 min); C = Ceiling Value; PEL = Permissible Exposure Limit

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. Buyer assumes liability in its use of the material.

Consult $\underline{www.buehler.com}$ periodically to assure latest revision.

<END OF MSDS>