



MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BUEHLER VARIDUR 3000 POWDER

IDENTIFICATION NUMBER: 20-3580

PRODUCT USE/CLASS: Acrylic base

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: 03/28/2012, 28 March 2012

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT%
01	Benzoyl peroxide	94-36-0	<2
02	Polymer	9003-42-3	<99

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Avoid inhalation of dust. Keep dust out of eyes to prevent possible irritation.

ACUTE EFFECTS – EYE CONTACT: Causes eye irritation.

ACUTE EFFECTS - SKIN CONTACT: Contact causes skin irritation. Repeated or prolonged contact may cause sensitization.

ACUTE EFFECTS – INHALATION: Vapors and/or aerosols formed at elevated temperatures can be irritating. Prolonged inhalation may be harmful.

ACUTE EFFECTS - INGESTION: Not expected to cause any harmful effects if ingested. Ingestion of large amounts may be irritating if product is swallowed, may cause nausea, headache, vomiting and/or diarrhea.

CHRONIC OVEREXPOSURE EFFECTS: OSHA classifies this material as Particulates, Not Otherwise Classified. Eyes, skin and respiratory tract may be irritated by gross overexposure to particulates, Not Otherwise Classified, no matter how they are generated.

OTHER INFORMATION: CARCINOGENICITY: IARC lists Benzoyl Peroxide as unclassifiable as to carcinogenicity to humans. None of the other components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

PRIMARY ROUTE(S) OF ENTRY: Skin or Eyes, Inhalation of dusts.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT: Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.

SKIN CONTACT: Wash with soap and water. Get medical help if discomfort persists.

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: Do not induce vomiting. Drink plenty of water or milk IMMEDIATELY. If vomiting, continue to offer water Or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.

CLOTHING: Remove contaminated clothing, wash thoroughly before reuse.

NOTES TO PHYSICIAN: Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: 304 °C (580 °F)

LOWER EXPLOSIVE LIMIT: N.A.

UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: No data

EXTINGUISHING MEDIA: CO₂, DRY CHEMICAL, FOAM, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: For bulk size. Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.

SPECIAL FIREFIGHTING PROCEDURES: Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust in air producing a fire hazard and possible explosion hazard if exposed to ignition source.

Wear a NIOSH approved positive pressure self-contained breathing apparatus with full protective clothing. Do not release runoff from fire control methods to sewers or waterways.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (eg. goggles, gloves). Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.

SECTION 7 – HANDLING AND STORAGE

HANDLING: Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.

STORAGE: Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Keep only in original container. Keep container closed to prevent water absorption and contamination.

STORAGE TEMPERATURE: Preferably not exceeding 35 °C.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: When working with large quantities of product provide adequate ventilation (eg. local exhaust ventilation, fans). Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.

RESPIRATORY PROTECTION: No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR SS 1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, it's provinces, EC member states, or Australia.

SKIN PROTECTION: If anticipated that prolonged & repeated skin contact will occur during use of this product, wear gloves for routine industrial use.

EYE PROTECTION: Depending on the use of this product, safety glasses or goggles may be worn.

OTHER PROTECTIVE EQUIPMENT: Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

HYGIENIC PRACTICES: Follow good general industrial safety practices during use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE:	N.A.	VAPOR DENSITY:	Is lighter than air
ODOR:	No appreciable	ODOR THRESHOLD:	No data
APPEARANCE:	White powder	EVAPORATION RATE:	Is slower than Butyl Acetate
SOLUBILITY IN H₂O:	Negligible		
FREEZE POINT:	N.A.	SPECIFIC GRAVITY:	1.2504
VAPOR PRESSURE:	N.A.	pH @ 0.0%:	N.A.
PHYSICAL STATE:	Powder	VISCOSITY:	N.A.
COEFFICIENT OF WATER/OIL DISTRIBUTION:	No data		

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

SECTION 10 – STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heating above 240 °C (464 °F)

INCOMPATIBILITY: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Methacrylate monomer and oxides of carbon when burned.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 – TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 – ECOLOGICAL INFORMATION

AQUATIC TOXICITY: There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: If product becomes contaminated, follow disposal instructions for contaminant. Dispose of in accordance with federal, state and local regulations.

DISPOSAL OF EMPTY CONTAINERS: For bulk only. Reuse of empty drums or containers is not recommended.

Employees should be advised of the potential hazards due to residual material associated with empty containers. Dispose of all empty containers properly in accordance with federal, state and local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not regulated for transportation

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.

IMDG PAGE NUMBER: N.A.

IMDG EMS: N.A.

IATA CLASS (1°, 2°): N.A.

SECTION 15 – REGULATORY 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: IMMEDIATE HEALTH HAZARD

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 SUBSTANCE 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.

NEW JERSEY RIGHT-TO-KNOW: THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP 5 COMPONENTS IN THIS PRODUCT:

CHEMICAL NAME CAS NUMBER

Polymer..... 9003-42-3

Benzoyl Peroxide..... 94-36-0

PENNSYLVANIA RIGHT-TO-KNOW: THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%:

CHEMICAL NAME CAS NUMBER

Polymer..... 9003-42-3

Benzoyl Peroxide..... 94-36-0

CALIFORNIA PROPOSTION 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: D2B

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: 03/23/2009, 23 March 2009

REASON FOR REVISION: Administrative change for new format. Revised section(s): 1,2,3,4,5,6,7,8,10,11,13,&15

VOLATILE ORGANIC COMPOUNDS: 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 = OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION; TLV-TWA = THRESHOLD LIMIT VALUE – TIME WEIGHTED AVERAGE (8 HOURS); STEL = SHORT-TERM EXPOSURE LIMIT (15 MINUTES); C = CEILING VALUE; PEL = PERMISSIBLE EXPOSURE LIMIT

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