

MATERIAL SAFETY DATA SHEET

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Vendor Update: 12/3/2002
Date Prepared: 2/27/2003
MSDS Number: TPVS1 ; TPVS2 ; VGB1460BRZ ; VGB3997BRZ ;
 VGB4920BRZ ; VGB605BRZ ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: SETTING BLOCK, GLAZING BEAD
HMIS Ratings:
NFPA Ratings:

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
CARBON BLACK	1333-86-4	0.1 - 1	3.5 MG/M ³ (TOTAL DUST)	3.5 MG/M ³ (TOTAL DUST)		ORAL: >15,400 MG/KG RABBIT; DERMAL >3 GM/KG RABBIT	
<i>Notes</i>							
CALCIUM CARBONATE	1317-65-3	1 - 5	10 MG/M ³ (TOTAL DUST)	5 MG/M ³ (RESPIRABLE DUST); 15 MG/M ³ (TOTAL DUST)			
<i>Notes</i>							

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY**Signs and Symptoms of****Exposure:****IV. FIRST AID MEASURES**

Eyes: RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST 15 MINUTES. IF EYE IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

Skin: WASH OFF WITH SOAP AND PLENTY OF WATER. IF SKIN IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

Ingestion: DO NOT INDUCE VOMITING WITHOUT MEDICAL ADVICE. WHEN SYMPTOMS PERSIST, OR IN ALL CASES OF DOUBT, SEEK MEDICAL ADVICE.

Inhalation: MOVE TO FRESH AIR IN CASE OF ACCIDENTAL INHALATION OF FUMES FROM OVERHEATING OR COMBUSTION. WHEN SYMPTOMS PERSIST, OR IN ALL CASES OF DOUBT, SEEK MEDICAL ADVICE.

V. FIRE FIGHTING MEASURES

Flash Point: NOT APPLICABLE

Lower Flammability Limit: NOT APPLICABLE

Upper Flammability Limit: NOT APPLICABLE

- Extinguishing Agents:** WATER, DRY POWDER,FOAM, CARBON DIOXIDE (CO²).
- Unusual Fire or Explosion Hazards:** MAY EMIT HYDROGEN CHLORIDE (HCl) OR CARBON MONOXIDE (CO) UNDER FIRE CONDITIONS.
- Fire Fighting Procedures:** FULL FACE SELF CONTAINED BREATHING APPARATUS (SCBA) USED IN POSITIVE PRESSURE MODE SHOULD BE WORN TO PREVENT INHALATION OF AIRBORNE CONTAMINANTS.

VI. ACCIDENTAL RELEASE MEASURES

- Containment/Cleanup:** WEAR APPROPRIATE PERSONAL PROTECTION DURING CLEANUP, SUCH AS IMPERVIOUS GLOVES, BOOTS AND COVERALLS. SHOULD NOT BE RELEASED INTO THE ENVIRONMENT. THE PRODUCT SHOULD NOT BE ALLOWED TO ENTER DRAINS, WATER COURSES OR THE SOIL. CLEAN UP PROMPTLY BY SWEEPING OR VACUUM. PACKAGE ALL MATERIAL IN PLASTIC, CARDBOARD OR METAL CONTAINERS FOR DISPOSAL.

VII. HANDLING AND STORAGE

- Other:** HANDLING: TAKE MEASURES TO PREVENT THE BUILD UP OF ELECTROSTATIC CHARGE. HEAT ONLY IN AREAS WITH APPROPRIATE EXHAUST VENTILATION. PROCESSING FUME CONDENSATES MAY CONTAIN COMBUSTIBLE OR TOXIC RESIDUE. PERIODICALLY CLEAN HOODS, DUCTS, AND OTHER SURFACES TO MINIMIZE ACCUMULATION OF THESE MATERIALS. STORAGE: KEEP CONTAINERS DRY AND TIGHTLY CLOSED TO AVOID MOISTURE ABSORPTION AND CONTAMINATION. KEEP IN A DRY, COOL PLACE.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Eyes:** SAFETY GLASSES WITH SIDE-SHIELDS.
- Skin:** PROTECTIVE GLOVES. LONG SLEEVED CLOTHING. SAFETY SHOES.
- Respiratory:** NO PERSONAL RESPIRATORY PROTECTIVE EQUIPMENT NORMALLY REQUIRED.
- Engineering:** HEAT ONLY IN AREAS WITH APPROPRIATE EXHAUST VENTILATION. PROVIDE APPROPRIATE EXHAUST VENTILATION AT MACHINERY.
- Other:** HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

IX. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** BLACK PELLETS, POWDER
- Boiling Point:** NOT APPLICABLE
- Freezing Point:** NOT DETERMINED
- pH:** NOT APPLICABLE
- Solubility in Water:** INSOLUBLE
- Specific Gravity:** NOT DETERMINED
- Vapor Pressure:** NOT APPLICABLE
- Vapor Density:** NOT APPLICABLE
- Physical State:** SOLID
- Other:** EVAPORATION RATE: NOT APPLICABLE.

X. STABILITY AND REACTIVITY

Stability: STABLE

Hazardous Polymerization: WILL NOT OCCUR

Hazardous Decomposition Products: CARBON DIOXIDE (CO₂), CARBON MONOXIDE (CO), OXIDES OF NITROGEN (NO_x), OTHER HAZARDOUS MATERIALS, AND SMOKE ARE ALL POSSIBLE. PROLONGED HEATING (APPROXIMATELY 30 MINUTES OR MORE) ABOVE 392°F (200°C) OR SHORT TERM HEATING AT 482°F (250°C) MAY RESULT IN PRODUCT DECOMPOSITION AND EVOLUTION OF CARBON MONOXIDE AND HYDROGEN CHLORIDE.

Incompatible Products: INCOMPATIBLE WITH STRONG ACIDS AND OXIDIZING AGENTS. AVOID CONTACT WITH ACETAL HOMOPOLYMERS AND ACETAL COPOLYMERS DURING PROCESSING.

Conditions To Avoid: KEEP AWAY FROM OXIDIZING AGENTS AND OPEN FLAME. TO AVOID THERMAL DECOMPOSITION, DO NOT OVERHEAT.

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Information: THIS MIXTURE HAS NOT BEEN EVALUATED AS A WHOLE FOR HEALTH EFFECTS. EXPOSURE EFFECTS LISTED ARE BASED ON EXISTING HEALTH DATA FOR THE INDIVIDUAL COMPONENTS WHICH COMPRISE THE MIXTURE. OVERVIEW:

THIS PRODUCT CONTAINS THE FOLLOWING COMPONENTS WHICH IN THEIR PURE FORM HAVE THE FOLLOWING CHARACTERISTICS:

Chemical CARBON BLACK CAS# 1333-86-4, EFFECT: SYSTEMIC; TARGET ORGANS: EYES, RESPIRATORY SYSTEM

Chemical CALCIUM CARBONATE CAS# 1317-65-3, EFFECT: IRRITANT; TARGET ORGANS: EYES, SKIN; EFFECT: SYSTEMIC; TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM

LC50/LD50: THIS PRODUCT CONTAINS THE FOLLOWING COMPONENTS WHICH IN THEIR PURE FORM HAVE THE FOLLOWING TOXICITY DATA:

Chemical CARBON BLACK CAS# 1333-86-4, ROUTE: ORAL LD50, >15,400 MG/KG RAT; ROUTE: DERMAL LD50, >3 GM/KG RABBIT

CARCINOGENICITY:

THIS PRODUCT CONTAINS THE FOLLOWING COMPONENTS WHICH IN THEIR PURE FORM HAVE THE FOLLOWING CARCINOGENICITY DATA:

Chemical CARBON BLACK CAS# 1333-86-4, OSHA: NO; IARC: 2B; NTP: NO

Special Hazard Information:

Chemical CARBON BLACK CAS# 1333-86-4, CARCINOGENICITY: MANY INHALATION TOXICOLOGISTS BELIEVE THAT THE TUMOR RESPONSE OBSERVED IN THE REFERENCE RAT STUDIES IS SPECIES SPECIFIC AND DOES NOT CORRELATE TO HUMAN EXPOSURE. HOWEVER, THE IARC EVALUATION IN MONOGRAPH VOL. 65, ISSUED IN APRIL 1996 CONCLUDED THAT, " THERE IS SUFFICIENT EVIDENCE IN EXPERIMENTAL ANIMALS FOR THE CARCINOGENICITY OF CARBON BLACK". BASED ON THIS EVALUATION, ALONG WITH THEIR EVALUATION OF INADEQUATE EVIDENCE OF CARCINOGENICITY IN HUMANS, IARC'S OVERALL EVALUATION IS THAT "CARBON BLACK IS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B). CARBON BLACK HAS NOT BEEN LISTED AS A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM (NTP) OR THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). THE NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH) CRITERIA DOCUMENT ON CARBON BLACK RECOMMENDS THAT ONLY CARBON BLACK WITH PAH (POLYNUCLEAR AROMATIC HYDROCARBON) LEVELS GREATER THAN 0.1% BE CONSIDERED SUSPECT CARCINOGENS.

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution: ADVERSE ECOLOGICAL IMPACT IS NOT KNOWN OR EXPECTED UNDER NORMAL USE.

Persistence and Degradation: NOT READILY BIODEGRADABLE.

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: PRODUCT: LIKE MOST THERMOPLASTICS THE PRODUCT CAN BE RECYCLED. WHERE POSSIBLE, RECYCLING IS PREFERRED TO DISPOSAL OR INCINERATION. THE GENERATOR OF WASTE MATERIAL HAS THE RESPONSIBILITY FOR PROPER WASTE CLASSIFICATION, TRANSPORTATION AND DISPOSAL IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.
CONTAMINATED PACKAGING: RECYCLING IS PREFERRED WHEN POSSIBLE. THE GENERATOR OF WASTE MATERIAL HAS THE RESPONSIBILITY FOR PROPER WASTE CLASSIFICATION, TRANSPORTATION AND DISPOSAL IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name: NOT REGULATED FOR TRANSPORTATION.

XV. REGULATORY INFORMATION

TSCA Status: ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY OR ARE EXEMPT.

EPA Sara Title III Chemical NOT APPLICABLE.

Listings:

California: PROP 65 WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN IN THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

Other: WHMIS CLASSIFICATION: D2A
INGREDIENT DISCLOSURE LIST: CAS # 14807-96-6
DSL: LISTED
NATIONAL INVENTORIES:
AUSTRALIA AICS, CHINA IECS, KOREA KECI, PHILIPPINES PICCS: LISTED
EUROPE EINECS, JAPAN ENCS: NOT DETERMINED.

XVI. OTHER INFORMATION**WARRANTY INFORMATION**

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.