

MATERIAL SAFETY DATA SHEET

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Vendor Update: 12/3/2002
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MSDS Number: GR100BRZ ; GR102W ; GR200BRZ ; GR202W ;
 GR300BRZ ; GR302W ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: STEP GRID
HMIS Ratings:
 Health: Minimal(0)
 Flammability: Slight(1)
 Instability/Reactivity: Minimal(0)
 Personal Protective Equipment: B

NFPA Ratings:**Other:**

EMERGENCY OVERVIEW:
 PELLETS WITH SLIGHT OR NO ODOR. SPILLED MATERIAL MAY CREATE SLIPPING HAZARD. CAN BURN IN A FIRE CREATING DENSE TOXIC SMOKE. MOLTEN PLASTIC CAN CAUSE SEVERE THERMAL BURNS. FUMES PRODUCED DURING MELT PROCESSING MAY CAUSE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION. SEVERE OVEREXPOSURE MAY RESULT IN NAUSEA, HEADACHE, CHILLS AND FEVER. SECONDARY OPERATIONS, SUCH AS GRINDING, SAWING CAN PRODUCE DUST WHICH MAY PRESENT AN EXPLOSION OR RESPIRATORY HAZARD.

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
NOT AVAILABLE							
Notes							

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: CAN CAUSE MECHANICAL IRRITATION IF DUSTS ARE GENERATED.

Skin: NO ABSORPTION HAZARD IN NORMAL INDUSTRIAL USE. UNLIKELY TO CAUSE IRRITATION EVEN ON REPEATED CONTACT.

Ingestion: NO HAZARD IN NORMAL INDUSTRIAL USE.

Signs and Symptoms of Exposure: CHRONIC/CARCINOGENICITY
 NTP: NOT TESTED
 OSHA: NOT REGULATED
 IARC: NOT LISTED
 NOTE
 OSHA, IARC AND/OR NTP HAVE LISTED CARBON BLACK AND HEAVY METALS, PRESENT IN SOME COLORANTS, AS CARCINOGENS. IF THESE COLORANTS ARE PRESENT IN THIS PRODUCT, THEY ARE SHOWN IN SECTION TWO. THESE COLORANTS ARE ESSENTIALLY BOUND TO THE PLASTIC MATRIX AND UNLIKELY TO CONTRIBUTE TO WORKPLACE EXPOSURE UNDER RECOMMENDED PROCESSING CONDITIONS.
 PROCESSING FUMES MAY CAUSE IRRITATION TO THE EYES, SKIN AND RESPIRATORY TRACT. IN CASES OF SEVERE EXPOSURE, NAUSEA AND HEADACHE CAN ALSO OCCUR.
 GREASE-LIKE PROCESSING FUME CONDENSATES ON VENTILATION

DUCTWORK, MOLDS, AND OTHER SURFACES CAN CAUSE IRRITATION AND INJURY TO SKIN.

IV. FIRST AID MEASURES

Eyes:	IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. AFTER INITIAL FLUSHING, REMOVE ANY CONTACT LENSES.
Skin:	WASH WITH SOAP WITH WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. FOR HOT PRODUCT, IMMEDIATELY IMMERSE IN OR FLUSH AFFECTED AREA WITH LARGE AMOUNTS OF COLD WATER TO DISSIPATE HEAT. COVER WITH CLEAN COTTON SHEETING OR GAUZE AND GET PROMPT MEDICAL ATTENTION.
Ingestion:	NO HAZARD IN NORMAL INDUSTRIAL USE. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IF SYMPTOMS DEVELOP.
Inhalation:	NO SPECIFIC TREATMENT IS NECESSARY SINCE THIS MATERIAL IS NOT LIKELY TO BE HAZARDOUS BY INHALATION. PROCESSING FUMES: PROCESSING FUMES INHALATION MAY BE IRRITATION TO THE RESPIRATORY TRACT. IF SYMPTOMS ARE EXPERIENCED REMOVE VICTIM FROM THE SOURCE OF CONTAMINATION OR MOVE VICTIM TO FRESH AIR AND OBTAIN MEDICAL ADVICE.

V. FIRE FIGHTING MEASURES

Extinguishing Agents:	WATER SPRAY AND FOAM. CARBON DIOXIDE AND DRY CHEMICAL ARE NOT RECOMMENDED BECAUSE THEIR LACK OF COOLING CAPACITY MAY PERMIT RE-IGNITION.
Unusual Fire or Explosion Hazards:	MATERIAL IS NOT SENSITIVE TO MECHANICAL IMPACT BUT IS SENSITIVE TO STATIC DISCHARGE UNDER DUST CLOUD CONDITIONS.
Fire Fighting Procedures:	DO NOT ENTER FIRE AREA WITHOUT PROPER PROTECTION INCLUDING SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT. FIGHT FIRE FROM A SAFE DISTANCE AND A PROTECTED LOCATION DUE TO THE POTENTIAL OF HAZARDOUS VAPORS AND DECOMPOSITION PRODUCTS.
Other:	CONDITIONS OF FLAMMABILITY: REQUIRES A CONTINUOUS FLAME SOURCE TO IGNITE. AUTOIGNITION TEMPERATURE: 842°F (450°C) ESTIMATED

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup:	GENERAL: GATHER AND STORE IN A CLOSED CONTAINER PENDING A WASTE DISPOSAL EVALUATION. ALLOW MOLTEN MATERIAL TO SOLIDIFY BEFORE DISPOSAL.
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VII. HANDLING AND STORAGE

Other:	HANDLING: FOLLOW RECOMMENDATIONS ON LABEL AND IN PROCESSING GUIDE. PREVENT CONTACT WITH SKIN AND EYES. USE GOOD INDUSTRIAL HYGIENE PRACTICES. PROVIDE ADEQUATE VENTILATION. SECONDARY OPERATIONS SUCH AS GRINDING, SANDING, OR SAW MAY PRODUCE A DUST EXPLOSION HAZARD. USE AGGRESSIVE HOUSEKEEPING ACTIVITIES TO PREVENT DUST ACCUMULATION; EMPLOY BONDING, GROUNDING, VENTING AND EXPLOSION RELIEF PROVISIONS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES. STORAGE:
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STORE IN A COOL DRY PLACE. AVOID EXCESSIVE HEAT AND IGNITION SOURCES.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	WEAR SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES. IN ADDITION, USE FULL FACE SHIELD WHEN CLEANING PROCESSING FUME CONDENSATES FROM HOODS, DUSTS AND OTHER SURFACES.
Skin:	WHEN HANDLING PELLETS OR POWDER, AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WEAR LONG PANTS, LONG SLEEVES, WELL INSULATED GLOVES, AND A FACE SHIELD DURING MELT PROCESSING. APPROPRIATE CLOTHING – INCLUDING CHEMICAL RESISTANT GLOVES – SHOULD BE WORN TO PREVENT CONTACT WITH PROCESSING FUMES CONDENSATE.
Respiratory:	WHEN USING THIS PRODUCT AT ELEVATED TEMPERATURES, IMPLEMENT ENGINEERING SYSTEMS, ADMINISTRATIVE CONTROLS, OR A RESPIRATORY PROTECTION PROGRAM (INCLUDING A RESPIRATOR APPROVED FOR PROTECTION FROM ORGANIC VAPORS, ACID GASES, AND PARTICULATE MATTER) IF PROCESSING FUMES ARE NOT ADEQUATELY CONTROLLED OR OPERATORS EXPERIENCE SYMPTOMS OF OVEREXPOSURE. IF DUST OR POWDER ARE PRODUCED FROM SECONDARY OPERATIONS SUCH AS SAWING OR GRINDING, USE A RESPIRATOR APPROVED FOR PROTECTION FROM DUST.
Engineering:	A CONTINUOUS SUPPLY OF FRESH AIR TO THE WORKPLACE TOGETHER WITH REMOVAL OF PROCESSING FUMES THROUGH EXHAUST SYSTEMS IS RECOMMENDED. PROCESSING FUME CONDENSATE MAY BE A FIRE HAZARD AND TOXIC; REMOVE PERIODICALLY FROM EXHAUST HOODS, DUCTWORK, AND OTHER SURFACES USING APPROPRIATE PERSONAL PROTECTION. LOCAL VENTILATION REQUIREMENTS MUST BE DETERMINED TO LIMIT EXPOSURE TO PROCESSING FUMES IN THE WORKPLACE.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	PLASTIC PELLET
Solubility in Water:	INSOLUBLE
Specific Gravity:	>1 (H ₂ O=1)
Vapor Pressure:	NEGLIGIBLE
Physical State:	SOLID
Volatile Content:	NEGLIGIBLE
Other:	MELTING POINT: THIS PRODUCT DOES NOT EXHIBIT A SHARP MELTING POINT BUT SOFTENS GRADUALLY OVER A WIDE RANGE OF TEMPERATURES. EVAPORATION RATE: NEGLIGIBLE OCTANOL/WATER PARTITION COEFFICIENT: NOT ESTABLISHED.

X. STABILITY AND REACTIVITY

Stability:	STABLE
Hazardous Decomposition Products:	PROCESING FUMES EVOLVED AT RECOMMENDED PROCESSING CONDITIONS MAY INCLUDE TRACE LEVELS OF THE FOLLOWING MATERIALS: SUBSTITUTED HYDROXYPHENYL BENZOTRIAZOLES, ALKYLPHENOLS, BENZENES, STYRENE, CYCLOHEXANE, ACRYLATES.
Conditions To Avoid:	DO NOT EXCEED MELT TEMPERATURE RECOMMENDATIONS IN PRODUCT LITERATURE. IN ORDER TO AVOID AUTOIGNITION/HAZARDOUS DECOMPOSITION OF HOT THICK MASSES OF PLASTIC, PURGINGS SHOULD BE COLLECTED IN SMALL, FLAT, SHAPES OR THIN STRANDS TO ALLOW FOR RAPID COLLING. QUENCH IN WATER. DO NOT ALLOW PRODUCT TO REMAIN IN BARREL AT ELEVATED TEMPERATURES FOR EXTENDED PERIODS OF TIME:

PURGE WITH A GENERAL PURPOSE RESIN.

Other: REACTIVITY
NOT REACTIVE UNDER RECOMMENDED CONDITIONS OF HANDLING,
STORAGE, PROCESSING, AND USE.

XI. TOXICOLOGICAL INFORMATION

Acute Toxicology Data: ACUTE HEALTH HAZARDS
ACUTE ORAL:
ORAL LD50 RAT >5 G/KG. ORAL TOXICITY IS ESTIMATED FROM TESTS ON
SIMILAR MATERIALS.
ACUTE DERMAL:
DRAIZE SCORE RABBIT: 0
DERMAL LD50 RABBIT >2 G/KG. PRODUCT NOT CONSIDERED PRIMARY SKIN
IRRITANT. DRAIZE SKIN PRIMARY IRRITATION SCORE (RABBIT) FOR SIMILAR
PRODUCTS, IN FINELY DIVIDED FORM, FOR A 24-HOUR EXPOSURE IS 0. NOT
EXPECTED TO BE A SKIN SENSITIZER BASED ON RESULTS OF MODIFIED
BUEHLER GUINEA PIG SENSITIZATION TEST FROM SIMILAR PRODUCTS.
EYE CONTACT
PRODUCT NOT CONSIDERED PRIMARY EYE IRRITANT. WHEN SIMILAR
PRODUCTS, IN FINELY DIVIDED FORM, WERE PLACED INTO THE EYES OF
RABBITS, SLIGHT TRANSIENT REDNESS OR DISCHARGE OCCURRED. THIS IS
CONSISTENT WITH THE EXPECTED SLIGHTLY ABRASIVE NATURE OF THE
RESIN PARTICLES.
SKIN CONTACT
PRODUCT NOT CONSIDERED PRIMARY SKIN IRRITANT. DRAIZE SKIN
PRIMARY IRRITATION SCORE (RABBIT) FOR SIMILAR PRODUCTS, IN FINELY
DIVIDED FORM, FOR A 24-HOUR EXPOSURE IS 0. NOT EXPECTED TO BE A
SKIN SENSITIZER BASED ON RESULTS OF MODIFIED BUEHLER GUINEA PIG
SENSITIZATION TEST FROM SIMILAR PRODUCTS. DERMAL LD50 (RABBIT): >2
G/KG, ESTIMATED. SUBCHRONIC HEALTH HAZARDS
SUBCHRONIC TOXICITY:
NO DATA AVAILABLE.

Other: CHRONIC HEALTH HAZARDS:
CARCINOGENIC PROPERTIES
NTP: NOT TESTED
OSHA: NOT REGULATED
IARC: NOT LISTED.

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution: THIS MATERIAL IS NOT EXPECTED TO BE HARMFUL TO THE ECOLOGY.

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: RECYCLING IS ENCOURAGED. LANDFILL OR INCINERATE IN ACCORDANCE
WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. COLLECTED
PROCESSING FUME CONDENSATES AND INCINERATOR ASH SHOULD BE
TESTED TO DETERMINE WASTE CLASSIFICATION.

Other: POSSIBLE EPA WASTE CODES: NO DATA

XIV. TRANSPORT INFORMATION

Other: NOT REGULATED.

XV. REGULATORY INFORMATION

TSCA Status: THIS PRODUCT IS IN COMPLIANCE WITH ALL RULES AND ORDERS OF TSCA.

EPA Sara Title III Chemical Listings: NO SARA 313 LISTED CHEMICALS IN THIS PRODUCT.

California: IF ANY COMPONENTS IN THIS PRODUCT ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR ARE REPRODUCTIVE HAZARDS, THEY ARE LISTED BELOW
NONE

Other: WHMIS PRODUCT CLASSIFICATION: NOT A CONTROLLED PRODUCT

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.