

RA11400

9727952

MATERIAL SAFETY DATA SHEET

6/29

SECTION 1 - PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER : SPECTRUM LEAD FREE GP3116 CHARCOAL			PRODUCT IDENTIFICATION NUMBER GP3116	
PRODUCT USE : CERAMIC GLAZE			GP-PAK2	
MANUFACTURER'S NAME SPECTRUM GLAZES INC.		SUPPLIER'S NAME SPECTRUM GLAZES INC.		
STREET ADDRESS 273 BOWES RD. UNIT A1		STREET ADDRESS 273 BOWES RD. UNIT A1		
CITY CONCORD PROVINCE ONTARIO		CITY CONCORD PROVINCE ONTARIO		
POSTAL CODE M9L1M5 EMERGENCY TEL. (905) 695-8355		POSTAL CODE M9L1M5 EMERGENCY TEL. (905) 695-8355		
SECTION 2 - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD50 OF INGREDIENTS (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFY SPECIES)
Frit - Chemical	90-99	65997-18-4		
ZrO2	1-5	1314-23-4		
CERAMIC STAIN -BLACK	1-5	68187-13-3		
CERAMIC STAIN - BROWN	1-5	68187-13-3		
CERAMIC STAIN -BLUE	1-5	68186-95-9		
SECTION 3 - PHYSICAL DATA				
PHYSICAL STATE LIQUID		ODOUR AND APPEARANCE ODOURLESS LIQUID		ODOUR THRESHOLD (PPM) N.A.
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENSITY (AIR=1)	EVAPORATION RATE N.A.	BOILING POINT (C) N.A.	FREEZING POINT (C) N.A.
pH 6.5-7	SPECIFIC GRAVITY 1.6-2.0	COEFF. WATER/OIL DIST. N.A.		
SECTION 4 - FIRE AND EXPLOSION DATA				
FLAMMABILITY YES__ NO X FLAMES UNDER WHICH CONDITIONS : THIS PRODUCT DOES NOT SUPPORT COMBUSTION				
MEANS OF EXTINCTION NO SPECIAL MEANS REQUIRED				
FLASHPOINT AND METHOD NONE		UPPER FLAMMABLE LIMIT (% BY VOLUME) N.A.	LOWER FLAMMABLE LIMIT (% BY VOLUME) N.A.	
AUTOIGNITION TEMP. (C) N.A.		HAZARDOUS COMBUSTION PRODUCTS NONE		
EXPLOSION DATA N.A.		SENSITIVITY IMPACT N.A.	ACTIVITY TO STATIC DISCHARGE N.A.	
SECTION 5 - REACTIVITY DATA				
CHEMICAL STABILITY YES X NO__ IF NO, UNDER WHICH CONDITIONS				
INCOMPATIBILITY WITH OTHER SUBSTANCES YES__ NO X IF SO WHICH ONES REACTIVITY				
REACTIVITY AND UNDER WHAT CONDITIONS: NO REACTIVITY				
HAZARDOUS DECOMPOSITION PRODUCT: MATERIAL IS STABLE, NO POLYMERIZATION BUT TOXIC FUMES MAY BE RELEASED WHEN MATERIAL IS MELTED.				

PRODUCT IDENTIFIER SPECTRUM LEAD FREE 325 LIME GREEN

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY
 SKIN CONTACT SKIN ABSORPTION X EYE CONTACT X INHALATION
 INGESTION X

EFFECTS OF ACUTE EXPOSURE TO PRODUCT: SKIN IRRITATION DUE TO ABRASIVENESS.
 EYE EXPOSURE COULD CAUSE IRRITATION BUT NO TOXIC EFFECTS.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: METAL FUMES IN THE VAPOURS FROM FIRING CERAMIC GLAZES MAY CAUSE LUNG INFLAMATION AND DAMAGE TO KIDNEY AND NERVOUS SYSTEM.

EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES (SPECIFY) WORK GLOVES	RESPIRATOR (SPECIFY) APPROVED DUST MASK	EYE (SPECIFY) SAFETY GLASSES
FOOTWEAR (SPECIFY)	CLOTHING (SPECIFY)	OTHER (SPECIFY)

ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS)
VENTILATION SHOULD BE USED WHEN SPRAYING GLAZES.

LEAK AND SPILL PROCEDURE: SCOOP INTO SUITABLE RECEPTACLE. DO NOT WASH DOWN DRAIN.

WASTE DISPOSAL: SEND TO APPROVED SITE IN ACCORDANCE WITH REGULATIONS.

HANDLING PROCEDURES AND EQUIPMENT: NO SPECIAL EQUIPEMENT NEEDED. FOLLOW STANDARD PLANT HYGIENE PROCEDURE.

STORAGE REQUIREMENTS: STORE IN DRY AREAS.

SPECIAL SHIPPING INFORMATION: PROTECT AGAINST PHYSICAL DAMAGE. DOT LABEL NON-REGULATED

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES: GLAZE CONTAINS THE OXIDES LISTED IN THE CHEMICAL FORMULA IN FORM OF CERAMIC FRIT. SOME OF THESE OXIDES ARE ON THE INGREDIENT DISCLOSURE LIST, ONCE THESE OXIDES ARE FUSED AND CONVERTED INTO FRIT THEY ARE NO LONGER AVAILABLE IN TOXIC FORM EVEN THOUGH TESTING WOULD DETECT THE PRESENCE OF THESE OXIDES. (FRIT IS ESSENTIALLY AN INSOLUBLE SUBSTANCE). THE OXIDES ARE PRESENT IN THE FORM OF A SINTERED CERAMIC STAIN OF LOW SOLUBILITY. THESE INGREDIENTS ARE PRESENT IN A STABLE AQUEOUS SUSPENSION.

SECTION 9 - PREPARATION DATE OF MSDS

PREPARED BY (GROUP, DEPARTMENT, ETC.) TECHNICAL DEPT.	PHONE NUMBER: (905) 695-8355	DATE 1 JANUARY 2012
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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER : SPECTRUM LEAD FREE GP3130 HUNTER GREEN			PRODUCT IDENTIFICATION NUMBER GP3130	
PRODUCT USE : CERAMIC GLAZE				
MANUFACTURER'S NAME SPECTRUM GLAZES INC.		SUPPLIER'S NAME SPECTRUM GLAZES INC.		
STREET ADDRESS 273 BOWES RD. UNIT A1		STREET ADDRESS 273 BOWES RD. UNIT A1		
CITY CONCORD PROVINCE ONTARIO		CITY CONCORD PROVINCE ONTARIO		
POSTAL CODE M9L1M5 EMERGENCY TEL. (905) 695-8355		POSTAL CODE M9L1M5 EMERGENCY TEL. (905) 695-8355		
SECTION 2 - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD50 OF INGREDIENTS (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFY SPECIES)
Frit - Chemical	90-99	65997-18-4		
CERAMIC STAIN -BLUE	1-5	68186-86-7		
CERAMIC STAIN -YELLOW	1-5	68187-15-5		
CERAMIC STAIN -BLUE	1-5	68186-87-8		
SECTION 3 - PHYSICAL DATA				
PHYSICAL STATE LIQUID		ODOUR AND APPEARANCE ODOURLESS LIQUID		ODOUR THRESHOLD (PPM) N.A.
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENSITY (AIR=1)	EVAPORATION RATE N.A.	BOILING POINT (C) N.A.	FREEZING POINT (C) N.A.
pH 6.5-7	SPECIFIC GRAVITY 1.6-2.0		COEFF. WATER/OIL DIST. N.A.	
SECTION 4 - FIRE AND EXPLOSION DATA				
FLAMMABILITY YES__ NO X FLAMES UNDER WHICH CONDITIONS : THIS PRODUCT DOES NOT SUPPORT COMBUSTION				
MEANS OF EXTINCTION NO SPECIAL MEANS REQUIRED				
FLASHPOINT AND METHOD NONE		UPPER FLAMMABLE LIMIT (% BY VOLUME) N.A.		LOWER FLAMMABLE LIMIT (% BY VOLUME) N.A.
AUTOIGNITION TEMP. (C) N.A.		HAZARDOUS COMBUSTION PRODUCTS NONE		
EXPLOSION DATA N.A.		SENSITIVITY IMPACT N.A.	ACTIVITY TO STATIC DISCHARGE N.A.	
SECTION 5 - REACTIVITY DATA				
CHEMICAL STABILITY YES X NO__ IF NO, UNDER WHICH CONDITIONS				
INCOMPATIBILITY WITH OTHER SUBSTANCES YES__ NO X IF SO WHICH ONES REACTIVITY				
REACTIVITY AND UNDER WHAT CONDITIONS: NO REACTIVITY				
HAZARDOUS DECOMPOSITION PRODUCT: MATERIAL IS STABLE, NO POLYMERIZATION BUT TOXIC FUMES MAY BE RELEASED WHEN MATERIAL IS MELTED.				

PRODUCT IDENTIFIER SPECTRUM LEAD FREE 325 LIME GREEN				
SECTION 6 - TOXICOLOGICAL PROPERTIES				
ROUTE OF ENTRY				
INGESTION X	SKIN CONTACT	SKIN ABSORPTION X	EYE CONTACT X	INHALATION
EFFECTS OF ACUTE EXPOSURE TO PRODUCT: SKIN IRRITATION DUE TO ABRASIVENESS. EYE EXPOSURE COULD CAUSE IRRITATION BUT NO TOXIC EFFECTS.				

CAUSE LUNG SYSTEM.		INFLAMATION AND DAMAGE TO KIDNEY AND NERVOUS	
EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
SECTION 7 - PREVENTIVE MEASURES			
PERSONAL PROTECTIVE EQUIPMENT:			
GLOVES (SPECIFY) WORK GLOVES	RESPIRATOR (SPECIFY) APPROVED DUST MASK	EYE (SPECIFY) SAFETY GLASSES	
FOOTWEAR (SPECIFY)	CLOTHING (SPECIFY)	OTHER (SPECIFY)	
ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS) VENTILATION SHOULD BE USED WHEN SPRAYING GLAZES.			
LEAK AND SPILL PROCEDURE: SCOOP INTO SUITABLE RECEPTACLE. DO NOT WASH DOWN DRAIN.			
WASTE DISPOSAL: SEND TO APPROVED SITE IN ACCORDANCE WITH REGULATIONS.			
HANDLING PROCEDURES AND EQUIPMENT: NO SPECIAL EQUIPEMENT NEEDED. FOLLOW STANDARD PLANT HYGIENE PROCEDURE.			
STORAGE REQUIREMENTS: STORE IN DRY AREAS.			
SPECIAL SHIPPING INFORMATION: PROTECT AGAINST PHYSICAL DAMAGE. DOT LABEL NON-REGULATED			
SECTION 8 - FIRST AID MEASURES			
SPECIFIC MEASURES: GLAZE CONTAINS THE OXIDES LISTED IN THE CHEMICAL FORMULA IN FORM OF CERAMIC FRIT. SOME OF THESE OXIDES ARE ON THE INGREDIENT DISCLOSURE LIST, ONCE THESE OXIDES ARE FUSED AND CONVERTED INTO FRIT THEY ARE NO LONGER AVAILABLE IN TOXIC FORM EVEN THOUGH TESTING WOULD DETECT THE PRESENCE OF THESE OXIDES. (FRIT IS ESSENTIALLY AN INSOLUBLE SUBSTANCE). THE OXIDES ARE PRESENT IN THE FORM OF A SINTERED CERAMIC STAIN OF LOW SOLUBILITY. THESE INGREDIENTS ARE PRESENT IN A STABLE AQUEOUS SUSPENSION.			
SECTION 9 - PREPARATION DATE OF MSDS			
PREPARED BY (GROUP, DEPARTMENT, ETC.) TECHNICAL DEPT.	PHONE NUMBER: (905) 695-8355	DATE 1 JANUARY 2012	

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER : SPECTRUM LEAD FREE GP3133 TURQUOISE			PRODUCT IDENTIFICATION NUMBER GP3133	
PRODUCT USE : CERAMIC GLAZE				
MANUFACTURER'S NAME SPECTRUM GLAZES INC.			SUPPLIER'S NAME SPECTRUM GLAZES INC.	
STREET ADDRESS 273 BOWES RD. UNIT A1			STREET ADDRESS 273 BOWES RD. UNIT A1	
CITY CONCORD PROVINCE ONTARIO			CITY CONCORD PROVINCE ONTARIO	
POSTAL CODE M9L1M5 EMERGENCY TEL. (905) 695-8355			POSTAL CODE M9L1M5 EMERGENCY TEL. (905) 695-8355	
SECTION 2 - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD50 OF INGREDIENTS (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFY SPECIES)
Frit - Chemical	90-99	65997-18-4		
CERAMIC STAIN -BLUE	1-10	68186-95-9		
SECTION 3 - PHYSICAL DATA				
PHYSICAL STATE LIQUID		ODOUR AND APPEARANCE ODOURLESS LIQUID		ODOUR THRESHOLD (PPM) N.A.
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENSITY (AIR=1)	EVAPORATION RATE N.A.	BOILING POINT (C) N.A.	FREEZING POINT (C) N.A.
pH 6.5-7	SPECIFIC GRAVITY 1.6-2.0	COEFF. WATER/OIL DIST. N.A.		
SECTION 4 - FIRE AND EXPLOSION DATA				
FLAMMABILITY YES__ NO X FLAMES UNDER WHICH CONDITIONS : THIS PRODUCT DOES NOT SUPPORT COMBUSTION				
MEANS OF EXTINCTION NO SPECIAL MEANS REQUIRED				
FLASHPOINT AND METHOD NONE		UPPER FLAMMABLE LIMIT (% BY VOLUME) N.A.	LOWER FLAMMABLE LIMIT (% BY VOLUME) N.A.	
AUTOIGNITION TEMP. (C) N.A.		HAZARDOUS COMBUSTION PRODUCTS NONE		
EXPLOSION DATA N.A.		SENSITIVITY IMPACT N.A.	ACTIVITY TO STATIC DISCHARGE N.A.	
SECTION 5 - REACTIVITY DATA				
CHEMICAL STABILITY YES X NO__ IF NO, UNDER WHICH CONDITIONS				
INCOMPATIBILITY WITH OTHER SUBSTANCES YES__ NO X IF SO WHICH ONES REACTIVITY				
REACTIVITY AND UNDER WHAT CONDITIONS: NO REACTIVITY				
HAZARDOUS DECOMPOSITION PRODUCT: MATERIAL IS STABLE, NO POLYMERIZATION BUT TOXIC FUMES MAY BE RELEASED WHEN MATERIAL IS MELTED.				

PRODUCT IDENTIFIER SPECTRUM LEAD FREE 325 LIME GREEN			
SECTION 6 - TOXICOLOGICAL PROPERTIES			
ROUTE OF ENTRY			
INGESTION X	SKIN CONTACT	SKIN ABSORPTION X	EYE CONTACT X INHALATION
EFFECTS OF ACUTE EXPOSURE TO PRODUCT: SKIN IRRITATION DUE TO ABRASIVENESS. EYE EXPOSURE COULD CAUSE IRRITATION BUT NO TOXIC EFFECTS.			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: METAL FUMES IN THE VAPOURS FROM FIRING CERAMIC GLAZES MAY CAUSE LUNG INFLAMMATION AND DAMAGE TO KIDNEY AND NERVOUS SYSTEM.			
EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO	CARCINOGENICITY

		PRODUCT	
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES (SPECIFY) WORK GLOVES	RESPIRATOR (SPECIFY) APPROVED DUST MASK	EYE (SPECIFY) SAFETY GLASSES
FOOTWEAR (SPECIFY)	CLOTHING (SPECIFY)	OTHER (SPECIFY)

ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS)
VENTILATION SHOULD BE USED WHEN SPRAYING GLAZES.

LEAK AND SPILL PROCEDURE: SCOOP INTO SUITABLE RECEPTACLE. DO NOT WASH DOWN DRAIN.

WASTE DISPOSAL: SEND TO APPROVED SITE IN ACCORDANCE WITH REGULATIONS.

HANDLING PROCEDURES AND EQUIPMENT: NO SPECIAL EQUIPEMENT NEEDED. FOLLOW STANDARD PLANT HYGIENE PROCEDURE.

STORAGE REQUIREMENTS: STORE IN DRY AREAS.

SPECIAL SHIPPING INFORMATION: PROTECT AGAINST PHYSICAL DAMAGE. DOT LABEL NON-REGULATED

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES: GLAZE CONTAINS THE OXIDES LISTED IN THE CHEMICAL FORMULA IN FORM OF CERAMIC FRIT. SOME OF THESE OXIDES ARE ON THE INGREDIENT DISCLOSURE LIST, ONCE THESE OXIDES ARE FUSED AND CONVERTED INTO FRIT THEY ARE NO LONGER AVAILABLE IN TOXIC FORM EVEN THOUGH TESTING WOULD DETECT THE PRESENCE OF THESE OXIDES. (FRIT IS ESSENTIALLY AN INSOLUBLE SUBSTANCE). THE OXIDES ARE PRESENT IN THE FORM OF A SINTERED CERAMIC STAIN OF LOW SOLUBILITY. THESE INGREDIENTS ARE PRESENT IN A STABLE AQUEOUS SUSPENSION.

SECTION 9 - PREPARATION DATE OF MSDS

PREPARED BY (GROUP, DEPARTMENT, ETC.) TECHNICAL DEPT.	PHONE NUMBER: (905) 695-8355	DATE 1 JANUARY 2012
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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER : SPECTRUM LEAD FREE GP3136 BRIGHT BLUE			PRODUCT IDENTIFICATION NUMBER GP3136	
PRODUCT USE : CERAMIC GLAZE				
MANUFACTURER'S NAME SPECTRUM GLAZES INC.		SUPPLIER'S NAME SPECTRUM GLAZES INC.		
STREET ADDRESS 273 BOWES RD. UNIT A1		STREET ADDRESS 273 BOWES RD. UNIT A1		
CITY CONCORD PROVINCE ONTARIO		CITY CONCORD PROVINCE ONTARIO		
POSTAL CODE M9L1M5 EMERGENCY TEL. (905) 695-8355		POSTAL CODE M9L1M5 EMERGENCY TEL. (905) 695-8355		
SECTION 2 - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD50 OF INGREDIENTS (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFY SPECIES)
Frit - Chemical	90-99	65997-18-4		
CERAMIC STAIN -BLUE	1-10	68186-87-8		
SECTION 3 - PHYSICAL DATA				
PHYSICAL STATE LIQUID		ODOUR AND APPEARANCE ODOURLESS LIQUID		ODOUR THRESHOLD (PPM) N.A.
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENSITY (AIR=1)	EVAPORATION RATE N.A.	BOILING POINT (C) N.A.	FREEZING POINT (C) N.A.
pH 6.5-7	SPECIFIC GRAVITY 1.6-2.0		COEFF. WATER/OIL DIST. N.A.	
SECTION 4 - FIRE AND EXPLOSION DATA				
FLAMMABILITY YES__ NO X FLAMES UNDER WHICH CONDITIONS : THIS PRODUCT DOES NOT SUPPORT COMBUSTION				
MEANS OF EXTINCTION NO SPECIAL MEANS REQUIRED				
FLASHPOINT AND METHOD NONE		UPPER FLAMMABLE LIMIT (% BY VOLUME) N.A.		LOWER FLAMMABLE LIMIT (% BY VOLUME) N.A.
AUTOIGNITION TEMP. (C) N.A.		HAZARDOUS COMBUSTION PRODUCTS NONE		
EXPLOSION DATA N.A.		SENSITIVITY IMPACT N.A.	ACTIVITY TO STATIC DISCHARGE N.A.	
SECTION 5 - REACTIVITY DATA				
CHEMICAL STABILITY YES X NO__ IF NO, UNDER WHICH CONDITIONS				
INCOMPATIBILITY WITH OTHER SUBSTANCES YES__ NO X IF SO WHICH ONES REACTIVITY				
REACTIVITY AND UNDER WHAT CONDITIONS: NO REACTIVITY				
HAZARDOUS DECOMPOSITION PRODUCT: MATERIAL IS STABLE, NO POLYMERIZATION BUT TOXIC FUMES MAY BE RELEASED WHEN MATERIAL IS MELTED.				

PRODUCT IDENTIFIER SPECTRUM LEAD FREE 325 LIME GREEN				
SECTION 6 - TOXICOLOGICAL PROPERTIES				
ROUTE OF ENTRY INGESTION X SKIN CONTACT SKIN ABSORPTION X EYE CONTACT X INHALATION				
EFFECTS OF ACUTE EXPOSURE TO PRODUCT: SKIN IRRITATION DUE TO ABRASIVENESS. EYE EXPOSURE COULD CAUSE IRRITATION BUT NO TOXIC EFFECTS.				
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: METAL FUMES IN THE VAPOURS FROM FIRING CERAMIC GLAZES MAY CAUSE LUNG INFLAMMATION AND DAMAGE TO KIDNEY AND NERVOUS SYSTEM.				

	IRRITANCY OF PRODUCT	PRODUCT	CARCINOGENICITY
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES (SPECIFY) WORK GLOVES	RESPIRATOR (SPECIFY) APPROVED DUST MASK	EYE (SPECIFY) SAFETY GLASSES
FOOTWEAR (SPECIFY)	CLOTHING (SPECIFY)	OTHER (SPECIFY)

ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS)
VENTILATION SHOULD BE USED WHEN SPRAYING GLAZES.

LEAK AND SPILL PROCEDURE: SCOOP INTO SUITABLE RECEPTACLE. DO NOT WASH DOWN DRAIN.

WASTE DISPOSAL: SEND TO APPROVED SITE IN ACCORDANCE WITH REGULATIONS.

HANDLING PROCEDURES AND EQUIPMENT: NO SPECIAL EQUIPEMENT NEEDED. FOLLOW STANDARD PLANT HYGIENE PROCEDURE.

STORAGE REQUIREMENTS: STORE IN DRY AREAS.

SPECIAL SHIPPING INFORMATION: PROTECT AGAINST PHYSICAL DAMAGE. DOT LABEL NON-REGULATED

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES: GLAZE CONTAINS THE OXIDES LISTED IN THE CHEMICAL FORMULA IN FORM OF CERAMIC FRIT. SOME OF THESE OXIDES ARE ON THE INGREDIENT DISCLOSURE LIST, ONCE THESE OXIDES ARE FUSED AND CONVERTED INTO FRIT THEY ARE NO LONGER AVAILABLE IN TOXIC FORM EVEN THOUGH TESTING WOULD DETECT THE PRESENCE OF THESE OXIDES. (FRIT IS ESSENTIALLY AN INSOLUBLE SUBSTANCE). THE OXIDES ARE PRESENT IN THE FORM OF A SINTERED CERAMIC STAIN OF LOW SOLUBILITY. THESE INGREDIENTS ARE PRESENT IN A STABLE AQUEOUS SUSPENSION.

SECTION 9 - PREPARATION DATE OF MSDS

PREPARED BY (GROUP, DEPARTMENT, ETC.) TECHNICAL DEPT.	PHONE NUMBER: (905) 695-8355	DATE 1 JANUARY 2012
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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER : SPECTRUM LEAD FREE GP3163 BRIGHT ORANGE			PRODUCT IDENTIFICATION NUMBER GP3163	
PRODUCT USE : CERAMIC GLAZE				
MANUFACTURER'S NAME SPECTRUM GLAZES INC.		SUPPLIER'S NAME SPECTRUM GLAZES INC.		
STREET ADDRESS 273 BOWES RD. UNIT A1		STREET ADDRESS 273 BOWES RD. UNIT A1		
CITY CONCORD PROVINCE ONTARIO		CITY CONCORD PROVINCE ONTARIO		
POSTAL CODE M9L1M5 EMERGENCY TEL. (905)695-8355		POSTAL CODE M9L1M5 EMERGENCY TEL. (905)695-8355		
SECTION 2 - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD50 OF INGREDIENTS (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFY SPECIES)
Frit - Chemical	90-99	65997-18-4		
ENCAPSULATED STAIN -ORANGE	1-10	72828-62-7		
SECTION 3 - PHYSICAL DATA				
PHYSICAL STATE LIQUID	ODOUR AND APPEARANCE ODOURLESS LIQUID		ODOUR THRESHOLD (PPM) N.A.	
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENSITY (AIR=1)	EVAPORATION RATE N.A.	BOILING POINT (C) N.A.	FREEZING POINT (C) N.A.
pH 6.5-7	SPECIFIC GRAVITY 1.6-2.0		COEFF. WATER/OIL DIST. N.A.	
SECTION 4 - FIRE AND EXPLOSION DATA				
FLAMMABILITY YES__ NO X FLAMES UNDER WHICH CONDITIONS : THIS PRODUCT DOES NOT SUPPORT COMBUSTION				
MEANS OF EXTINCTION NO SPECIAL MEANS REQUIRED				
FLASHPOINT AND METHOD NONE		UPPER FLAMMABLE LIMIT (% BY VOLUME) N.A.	LOWER FLAMMABLE LIMIT (% BY VOLUME) N.A.	
AUTOIGNITION TEMP. (C) N.A.		HAZARDOUS COMBUSTION PRODUCTS NONE		
EXPLOSION DATA N.A.		SENSITIVITY IMPACT N.A.	ACTIVITY TO STATIC DISCHARGE N.A.	
SECTION 5 - REACTIVITY DATA				
CHEMICAL STABILITY YES X NO__ IF NO, UNDER WHICH CONDITIONS				
INCOMPATIBILITY WITH OTHER SUBSTANCES YES__ NO X IF SO WHICH ONES REACTIVITY				
REACTIVITY AND UNDER WHAT CONDITIONS: NO REACTIVITY				
HAZARDOUS DECOMPOSITION PRODUCT: MATERIAL IS STABLE, NO POLYMERIZATION BUT TOXIC FUMES MAY BE RELEASED WHEN MATERIAL IS MELTED.				

PRODUCT IDENTIFIER SPECTRUM LEAD FREE 325 LIME GREEN				
SECTION 6 - TOXICOLOGICAL PROPERTIES				
ROUTE OF ENTRY				
INGESTION X		SKIN CONTACT	SKIN ABSORPTION X	EYE CONTACT X INHALATION
EFFECTS OF ACUTE EXPOSURE TO PRODUCT: SKIN IRRITATION DUE TO ABRASIVENESS. EYE EXPOSURE COULD CAUSE IRRITATION BUT NO TOXIC EFFECTS.				
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: METAL FUMES IN THE VAPOURS FROM FIRING CERAMIC GLAZES MAY CAUSE LUNG INFLAMATION AND DAMAGE TO KIDNEY AND NERVOUS SYSTEM.				

	IRRITANCY OF PRODUCT	PRODUCT	CARCINOGENICITY
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES (SPECIFY)
WORK GLOVES

RESPIRATOR (SPECIFY)
APPROVED DUST MASK

EYE (SPECIFY)
SAFETY GLASSES

FOOTWEAR (SPECIFY)

CLOTHING (SPECIFY)

OTHER (SPECIFY)

ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS)
VENTILATION SHOULD BE USED WHEN SPRAYING GLAZES.

LEAK AND SPILL PROCEDURE: SCOOP INTO SUITABLE RECEPTACLE. DO NOT WASH DOWN DRAIN.

WASTE DISPOSAL: SEND TO APPROVED SITE IN ACCORDANCE WITH REGULATIONS.

HANDLING PROCEDURES AND EQUIPMENT: NO SPECIAL EQUIPEMENT NEEDED. FOLLOW STANDARD PLANT HYGIENE PROCEDURE.

STORAGE REQUIREMENTS: STORE IN DRY AREAS.

SPECIAL SHIPPING INFORMATION: PROTECT AGAINST PHYSICAL DAMAGE. DOT LABEL NON-REGULATED

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES: GLAZE CONTAINS THE OXIDES LISTED IN THE CHEMICAL FORMULA IN FORM OF CERAMIC FRIT. SOME OF THESE OXIDES ARE ON THE INGREDIENT DISCLOSURE LIST, ONCE THESE OXIDES ARE FUSED AND CONVERTED INTO FRIT THEY ARE NO LONGER AVAILABLE IN TOXIC FORM EVEN THOUGH TESTING WOULD DETECT THE PRESENCE OF THESE OXIDES. (FRIT IS ESSENTIALLY AN INSOLUBLE SUBSTANCE). THE OXIDES ARE PRESENT IN THE FORM OF A SINTERED CERAMIC STAIN OF LOW SOLUBILITY. THESE INGREDIENTS ARE PRESENT IN A STABLE AQUEOUS SUSPENSION.

SECTION 9 - PREPARATION DATE OF MSDS

PREPARED BY
(GROUP, DEPARTMENT, ETC.)
TECHNICAL DEPT.

PHONE NUMBER:
(905) 695-8355

DATE
1 JANUARY 2012

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER : SPECTRUM LEAD FREE GP3168 CHRISTMAS RED			PRODUCT IDENTIFICATION NUMBER GP3168	
PRODUCT USE : CERAMIC GLAZE				
MANUFACTURER'S NAME SPECTRUM GLAZES INC.		SUPPLIER'S NAME SPECTRUM GLAZES INC.		
STREET ADDRESS 273 BOWES RD. UNIT A1		STREET ADDRESS 273 BOWES RD. UNIT A1		
CITY CONCORD PROVINCE ONTARIO		CITY CONCORD PROVINCE ONTARIO		
POSTAL CODE M9L1M5 EMERGENCY TEL. (905) 695-8355		POSTAL CODE M9L1M5 EMERGENCY TEL. (905) 695-8355		
SECTION 2 - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD50 OF INGREDIENTS (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFY SPECIES)
Frit - Chemical	90-99	65997-18-4		
ENCAPSULATED STAIN -RED	1-10	72828-62-7		
SECTION 3 - PHYSICAL DATA				
PHYSICAL STATE LIQUID		ODOUR AND APPEARANCE ODOURLESS LIQUID		ODOUR THRESHOLD (PPM) N.A.
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENSITY (AIR=1)	EVAPORATION RATE N.A.	BOILING POINT (C) N.A.	FREEZING POINT (C) N.A.
pH 6.5-7	SPECIFIC GRAVITY 1.6-2.0	COEFF. WATER/OIL DIST. N.A.		
SECTION 4 - FIRE AND EXPLOSION DATA				
FLAMMABILITY YES__ NO X FLAMES UNDER WHICH CONDITIONS : THIS PRODUCT DOES NOT SUPPORT COMBUSTION				
MEANS OF EXTINCTION NO SPECIAL MEANS REQUIRED				
FLASHPOINT AND METHOD NONE		UPPER FLAMMABLE LIMIT (% BY VOLUME) N.A.	LOWER FLAMMABLE LIMIT (% BY VOLUME) N.A.	
AUTOIGNITION TEMP. (C) N.A.		HAZARDOUS COMBUSTION PRODUCTS NONE		
EXPLOSION DATA N.A.		SENSITIVITY IMPACT N.A.	ACTIVITY TO STATIC DISCHARGE N.A.	
SECTION 5 - REACTIVITY DATA				
CHEMICAL STABILITY YES X NO__ IF NO, UNDER WHICH CONDITIONS				
INCOMPATIBILITY WITH OTHER SUBSTANCES YES__ NO X IF SO WHICH ONES REACTIVITY				
REACTIVITY AND UNDER WHAT CONDITIONS: NO REACTIVITY				
HAZARDOUS DECOMPOSITION PRODUCT: MATERIAL IS STABLE, NO POLYMERIZATION BUT TOXIC FUMES MAY BE RELEASED WHEN MATERIAL IS MELTED.				

PRODUCT IDENTIFIER SPECTRUM LEAD FREE 325 LIME GREEN				
SECTION 6 - TOXICOLOGICAL PROPERTIES				
ROUTE OF ENTRY INGESTION X SKIN CONTACT SKIN ABSORPTION X EYE CONTACT X INHALATION				
EFFECTS OF ACUTE EXPOSURE TO PRODUCT: SKIN IRRITATION DUE TO ABRASIVENESS. EYE EXPOSURE COULD CAUSE IRRITATION BUT NO TOXIC EFFECTS.				
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: METAL FUMES IN THE VAPOURS FROM FIRING CERAMIC GLAZES MAY CAUSE LUNG INFLAMATION AND DAMAGE TO KIDNEY AND NERVOUS SYSTEM.				