

MATERIAL SAFETY DATA SHEET - 16 Sections

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier COLOR FLAME CRYSTALS ITEM 715, 715S, 715C, 715CS		
Product Use PRODUCES GREEN, BLUE, AND YELLOW FLAME		
Manufacturer's Name RUTLAND FIRE CLAY COMPANY		EMERGENCY CONTACT CHEMTREC
Street Address 7 CRABTREE ROAD		EMERGENCY EMERGENCY DOMESTIC PHONE NUMBER 800-424-9300
City JACKSONVILLE	State IL	EMERGENCY INTERNATIONAL CONTACT NUMBER 703-527-3887
Zip code 62650		
Date MSDS Prepared November 11, 2010	MSDS Prepared By GENE ADDISON	Phone Number 217-245-7810

SECTION 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	CAS Number	LD ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of Ingredient (<i>specify species</i>)
AMMONIUM CHLORIDE		12125-02-9	ORAL RAT	
COPPER SULFATE		7758-99-8	ORAL RAT 300 mg/kg	BLUEGILL 1.5 g at 18°C.
SILICA		14808-60-7		

SECTION 3 -- HAZARD IDENTIFICATION

Route of Entry <input checked="" type="checkbox"/> SKIN CONTACT <input type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE CONTACT <input checked="" type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION	
[Emergency Overview] PRODUCT IS OFF WHITE TO GRAY SOLID WITH BLUE CRYSTALS VISIBLE. MAY CAUSE SKIN & EYE IRRITATION IF NOT REMOVED. DO NOT BREATHE DUST. WASH HANDS AFTER USE. KEEP CONTAINER CLOSED	
[Potential Health Effects] ROUTES OF ENTRY MOST LIKELY EXPOSURE DUE TO SKIN CONTACT. WILL BE SLIGHTLY IRRITATING TO IRRITATING DEPENDING ON HUMIDITY TARGET ORGANS SKIN, EYES, RESPIRATORY TRACT IRRITANCY EYE AND SKIN IRRITATION ARE MOST COMMON, WITH UPPER RESPIRATOR TRACT IRRITATION NEXT. EXCESSIVE INHALATION AND/OR INGESTION ARE REPORTED TO HAVE CAUSED NERVOUS SYSTEM AND RESPIRATORY DISORDERS SENSITIZING CAPABILITY CHRONIC EXPOSURE MAY CAUSE SKIN IRRITATION REPRODUCTIVE EFFECTS NONE KNOWN CANCER INFORMATION NO INGREDIENTS LISTED AS CANCER AGENTS	

SECTION 4 -- FIRST AID MEASURES

Skin Contact	WASH THOROUGHLY WITH SOAP AND WATER
Eye Contact	FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.
Inhalation	IF INHALED, REMOVE TO FRESH AIR.
Ingestion	IF SWALLOWED, INDUCE VOMITING IMMEDIATELY BY GIVING 2 GLASSES OF WATER AND STICKING FINGER DOWN THROAT. CALL EMERGENCY SERVICES

Product Identifier

SECTION 5 -- FIRE FIGHTING MEASURES

Flammable <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	If yes, under what conditions
Means of Extinction WATER SPRAY, FOAM, CARBON DIOXIDE, OR DRY CHEMICAL	
Flashpoint (°F) and Method N/A	
Auto ignition Temperature (°F) N/A	
Hazardous Combustion Products CARBON MONOXIDE, CARBON DIOXIDE, HYDROCARBON BY PRODUCTS	

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

Environmental Precautions PREVENT LARGE QUANTITY OF MATERIAL FROM BEING WASHED INTO WATERWAYS OR SEWERS
Cleanup Procedures SWEEP UP FOR DISPOSAL IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS
Personal Protection WEAR SAFEWAY EYEWEAR, IMPERVIOUS GLOVES, AND RESPIRATORS FOR LARGE SPILLS

SECTION 7 -- HANDLING AND STORAGE

Handling Procedures and Equipment NO SPECIAL HANDLING REQUIREMENTS
Special Mixing and Handling Instructions NONE
Storage Requirements KEEP CONTAINER TIGHTLY CLOSED AND PROPERLY LABELED.

SECTION 8 -- EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits <input checked="" type="checkbox"/> ACGIH TLV 20 mg/m ³ <input checked="" type="checkbox"/> OSHA PEL 30 mg/m ³ <input type="checkbox"/> OTHER (Specify)
Specific Engineering Controls (Such as ventilation, enclosed process) GENERAL VENTILATION
Personal Protective Equipment <input type="checkbox"/> GLOVES <input type="checkbox"/> RESPIRATOR <input type="checkbox"/> EYEWEAR <input type="checkbox"/> FOOTWEAR <input type="checkbox"/> CLOTHING <input type="checkbox"/> OTHER
If checked, please specify type GLOVES IF PREFERRED, USE LATEX, VINYL, OR RUBBER GLOVES WHILE WORKING WITH PRODUCT EYEWEAR IF PREFERRED, WEAR GLASSES OR SAFETY GLASSES WHILE APPLYING PRODUCT

Product Identifier

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

Physical State GRANULAR	Odor and appearance ODORLESS GRANULES WITH BLUE CRYSTALS	Odor Threshold (ppm) N/A
Specific Gravity N/A	Vapor Density (Air = 1) A	Vapor Pressure (mmHg) N/A
Evaporation Rate (Butyl Acetate=1) N/A	Boiling Point (°F) N/A	Freezing Point (°F) N/A
pH LOW pH IN AQUEOUS SOLUTION	Coefficient of Water/Oil Distribution N/A	[Solubility in Water] 15%

SECTION 10 -- STABILITY AND RELIABILITY

Chemical Stability <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If no, under which conditions?
Incompatibility with other substances <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If yes, which ones? ACIDS, ALKALI, AND THEIR CARBONATES
Reactivity, and under what conditions? EVOLVES TOXIC FUMES AT 653°F, COPPER FUMES AT 1000°	
Hazardous Decomposition Products	

SECTION 11 -- TOXICOLOGICAL INFORMATION

Effects of Acute Exposure INGESTION-GIVE TWO GLASSES OF WARM WATER AND CALL PHYSICIAN EYE CONTACT-FLUSH WITH WARM WATER 15 MINUTES, GET PROMPT MEDICAL ATTENTION. SKIN-WASH WITH SOAP AND Water INHALATION-REMOVE TO FRESH AIR	
Effects of Chronic Exposure IRRITANT TO EYES, SKIN, & MUCOUS MEMBRANES.	
Irritancy of Product MILD TO SLIGHT	
Skin Sensitization NONE KNOWN	Respiratory Sensitization NONE KNOWN
Carcinogenicity-IARC NONE KNOWN	Carcinogenicity-ACGIH NONE KNOWN
Reproductive Toxicity NONE KNOWN	Teratogenicity NONE KNOWN
Embryotoxicity NONE KNOWN	Mutagenicity NONE KNOWN
Name of Synergistic Products/Effects NONE KNOWN	

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Product Identifier

SECTION 12 -- ECOLOGICAL INFORMATION

Aquatic Toxicity	COPPER SULFATE MAY BE TOXIC TO AQUATIC ORGANISMS

SECTION 13 -- DISPOSAL CONSIDERATIONS

Waste Disposal	DISPOSE OF ALL WASTE IN ACCORD WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS

SECTION 14 -- TRANSPORT INFORMATION

Special Shipping Information	
TDG NOT REGULATED	[DOT] NOT REGULATED
[IMO] UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, n.o.s. (CUPRIC SULFATE), 9, III, MUST HAVE MARINE POLLUTANT MARKING	[ICAO] UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, n.o.s. (CUPRIC SULFATE), 9, III,

SECTION 15 -- REGULATORY INFORMATION

SARA SECTION 302 RQ & TPQ COPPER SULFATE & AMMONIUM CHLORIDE BOTH HAVE RQ'S WHICH WILL NOT BE EXCEEDED DUE TO PRODUCT	[OSHA] OSHA HAZARDOUS MATERIALS IN PRODUCT
SARA SECTION 313 COPPER COMPOUNDS RQ 5000 LBS.	[TSCA] ALL INGREDIENTS ON TSCA LIST SIGNIFICANT NEW USE RULE
CLEAN AIR ACT CONTAINS NO HAZARDOUS AIR POLLUTANTS CLEAN WATER ACT NOT LISTED AS PRIORITY OR TOXIC POLLUTANT	[TSCA] HEALTH & SAFETY REPORTING LIST NOT ON LIST CHEMICAL TEST RULES NOT UNDER RULES SECTION 12b NOT LISTED
STATE RIGHT TO KNOW LISTS NOT ON ANY STATE LIST EUROPEAN /INTERNATIONAL REGULATIONS HAZARDOUS LABELING IN ACCORDANCE WITH EC DIRECTIVES HAZARD SYMBOLS RISK PHRASES SAFETY PHRASES	CERCLA NOT REPORTABLE NON HAZARDOUS

SECTION 16 -- OTHER INFORMATION

<p>THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS, TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES. IN NO EVENT SHALL RUTLAND FIRE CLAY COMPANY BE LIABLE FOR ANY CLAIMS, LOSSES, OR DAMAGES OF ANY THIRD PARTY OR FOR LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF RUTLAND HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.</p>	
<p>HMIS Rating Health : 1 Flammability : 0 Reactivity : 0</p>	<p>NFPA Rating Health : 1 Flammability : 0 Reactivity : 0</p>