

RTG SOLUTIONS, LLC

MATERIAL SAFETY DATA SHEET M.S.D.S.

I – PRODUCT IDENTIFICATION

TRADE NAME (as labeled)	Ring to Green
MANUFACTURED BY	RTG SOLUTIONS, LLC 6925 Union Park Center Suite 550 Cottonwood Heights, UT 84047
DATE PREPARED/REVISED	October 7, 2020
CONTACT PERSON	Steve Teerlink

II – HAZARDOUS INGREDIENTS

Chemical Name	CAS No. & %	ACGH TLV	Exposure Limits in Air (give units)	
			OSHA PEL	OTHER (specify)
Sodium Molybdate	7439987	5 mg/m3	5 mg/m3	
Manganese EDTA	7439965			Oral LD50R at: 1750 mg/kg
Copper EDTA	7440508			“
Zinc EDTA	7440666			“

III – PHYSICAL PROPERTIES

VAPOR DENSITY (AIR = 1)	: N/A
SPECIFIC GRAVITY	: Approx. 1.7 g/cc
SOLUBILITY IN WATER	: 300 g/l or greater
VAPOR PRESSURE, mmHg AT 20°C	: N/A
APPEARANCE AND ODOR	: Fine Crystals & Powder
MELTING POINT OR RANGE, °F	: Not established
BOILING POINT OR RANGE, °F	: N/A
EVAPORATION RATE (BUTYLACETATE = 1)	: 0
DECOMPOSITION TEMPERATURE	: 250 - 374°F
pH 1% SOLUTION	: 4.5 – 5.5
MOLECULAR WEIGHT	: 110 – 117

CHEMICAL NAME : Proprietary mixture containing Ammonium Phosphate, Potassium Phosphate, Potassium Nitrate, Potassium Sulfate, Ammonium Sulfate, Ammonium Nitrate, Urea and Micronutrients.

IV – FIRE AND EXPLOSION

FLASH POINT °F (Give Method) : Greater than 300°F
 AUTO IGNITION TEMPERATURE °F : N/A
 FLAMMABLE LIMITS IN AIR (Vol. %) : Non-Flammable Lower (LEL) : N/A
 Upper (UEL) : N/A

FIRE EXTINGUISHING MATERIALS

_____ water spray
 _____ foam
 _____ carbon dioxide
 _____ dry chemical
 _____ other

SPECIAL FIREFIGHTING PROCEDURE: Use abundant amount of water in early stages of fire.

UNUSUAL FIRE & EXPLOSION HAZARDS: When large quantities are involved in fire, solids may fuse or melt. Noxious Fumes may form, Nitrogen Oxides. In such conditions, application of water may result in scattering of molten materials.

V – HEALTH HAZARD INFORMATION

L.D. 50 : Not established.

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE:

INHALED : Dust can irritate upper respiratory system.
 CONTACT WITH SKIN OR EYES : Prolonged skin contact may cause Dermatitis.
 Dust may irritate eyes.
 ABSORBED THROUGH SKIN : Not known adverse effects at this time.
 SWALLOWED : Nausea, diarrhea, diuresis, muscular debility,
 collapse, fatality.

FIRST AID (EMERGENCY) PROCEDURES:

EYE CONTACT : Wash thoroughly with water for at least 15 minutes. Hold eyelids apart during flushing. Send patient immediately to physician.
 SKIN CONTACT : Wash with soap and water.
 INHALED : Remove from exposure. Treat symptomatically.

SWALLOWED : Rinse mouth. Drink 2-3 glasses of water and seek medical assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

SUSPECTED CANCER AGENT?

No This product's ingredients are not found in the list below.

Yes FEDERAL OSHA _____ NTP _____ IARC _____

(California employers using CAL-OSHA regulated carcinogens must register with CAL-OSHA. The CAL-OSHA and Federal OSHA carcinogen lists are similar).

VI – REACTIVITY DATA

STABILITY : Stable _____ Unstable

CONDITIONS TO AVOID : Heating with Sodium Phosphite; dissolving with Sodium Hyposulfite, long exposure to tin, solder, tin plate or stagnates.

INCOMPATIBILITY

(Material to avoid)

Corrosive to Aluminum, Steel, Brass, Copper.

HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS):

Nitrogen Oxides.

HAZARDOUS POLYMERIZATION: _____ May occur Will not occur

CONDITIONS TO AVOID : Avoid fire.

VII – SPILL, LEAK & DISPOSAL PROCEDURES:

SPILL RESPONSE PROCEDURE (Include employee protection measures):

Sweep into breaker. Dilute with sufficient water. Add soda ash. Mix and neutralize with 6m HCL. Drain into the sewer with abundant water.

PREPARING WASTES FOR DISPOSAL (Container types, neutralization, etc.):

Remove slowly into a large container of water. Add soda ash, slightly stirring. After 24 hours, decant or siphon into another container. Neutralize with 6m HCL and drain into the sewer with abundant water.

VIII – SPECIAL HANDLING INFORMATION

VENTILATION & ENGINEERING CONTROLS

: Good mechanical ventilation as dust level is sufficiently high.

RESPIRATORY PROTECTION (TYPE)

: Wear mask if excessive airborne dust is present.

EYE PROTECTION (TYPE)

: Safety glasses or goggles – wear them if dust levels cause discomfort.

GLOVES (SPECIFIC MATERIAL)

: Rubber or plastic – to prevent irritation.

OTHER CLOTHING & EQUIPMENT

: Wear protective work gown if desired.

WORK PRACTICES, HYGIENIC PRACTICES

: Keep away from open flame. Avoid contact with organics. Put into a dry place.

PROTECTIVE MEASURES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:

Wear a dust protector and eye wear.
