

SAFETY DATA SHEET

***** SECTION I - MANUFACTURERS IDENTIFICATION *****

PRODUCT NAME: FIRE RED
PRODUCT CODE: PR9-1932
PRODUCT CLASS: POLYESTER-TGIC
SUPPLIER: ROYAL POWDER CORPORATION
ADDRESS: 4800 BRIAR ROAD, CLEVELAND, OH 44135
PRODUCT USE: POWDER PAINT
PHONE INFO: 216-898-0074
MEDICAL EMERGENCY PHONE: 216-898-0074
DATE PREPARED: 4/10/2018
NAME OF PREPARER: Kirit Patel

***** SECTION II - HAZARD(s) identification *****

This preparation is hazardous per the following GHS criteria.

GHS-Classification:

Acute oral toxicity	Category 4
Acute inhalation toxicity	Category 3
Serious eye damage/eye irritation	Category 1
Skin sensitisation	Category 1
Germ cell mutagenicity	Category 1B
Target Organ Systemic Toxicant- Repeated exposure	Category 2

GHS-Labeling:



Hazard symbols

Signal word

Danger

Hazard statement

Harmful if swallowed
Toxic if inhaled
Causes serious eye damage
May cause an allergic skin reaction
May cause genetic defects
May cause damage to organs through prolonged or repeated exposure

Precautionary statements

Contaminated work clothing should not be allowed out of the workplace.
Do not breathe dust/fumes/gas/mist/vapours/spray.
Do not eat, drink or smoke when using this product.
Obtain special instruction before use.
Use only outdoor or in a well-ventilated area.
Wear protective gloves/clothing/eye and face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concered: Get medical advice/attention.
IF IN EYES: Rinse with water for several minutes. Remove contact lenses.
Continue rinsing with water.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
IF SWALLOWED: Immediately call a Poison center or doctor.

Wash contaminated clothing before reuse.

ROUTE OF ENTRY:

INHALATION, EYE, SKIN, INGESTION

INHALATION: It can cause irritation of respiratory passages.

EYES: Dust and fumes can cause irritation.

SKIN: May lead to minor irritation

INGESTION: Slightly toxic

HEALTH	2
FLAMABILITY	1
REACTIVITY	0
PPE	E

CARCINOGENICITY INFORMATION:

See section XI for more details.

***** **SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS** *****

COMPONENT	CSA NO. % BY WT.	ACGIH TLV	OSHA PEL
CARBON BLACK	1333-86-4 <1.0%	3.5 MG/M3	3.5 MG/M3
1,3,5-TRIGLYCIDYL ISOCYANURATE	2451-62-9 <10%	0.025 MG/M3	N/A

All components of this product are in compliance with U.S. TSCA chemical substance inventory requirements. This product should be treated and handled as a nuisance particulates. This product contains no chemicals subject to the reporting requirement of Section 313 of Title III of the Superfund Amendments and Reauthorization Act. Please see section XI.

***** **SECTION IV - FIRST AID MEASURES** *****

INHALATION HEALTH RISK AND SYMPTOMS

Overexposure to dust can cause irritation of respiratory passages.

Remove to fresh air immediately.

Symptoms- Difficulties in breathing.

SKIN AND EYE CONTACT AND SYMPTOMS:

Eye Contact: Dust and fumes can cause irritation, wash eyes thoroughly with water.

Symptoms: Redness and tearing.

SKIN CONTACT: May lead to minor irritation.

Symptoms: skin absorption is unlikely in normal use.

INGESTION: Slightly toxic. Symptoms are not fully known.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Inhalation is main source of exposure. Irritation to upper respiratory tract. May lead to nosebleeds. Potential loss of appetite and bleeding from the nose. No known chronic effects.

Carbon Black: This product contains less than 0.1% carbon black, which has been incorporated with resins into a homogeneous powder. Evidence of carcinogenicity of pure carbon black is inconclusive. Based on an International Agency for Research on Cancer (IARC) conclusion that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black" and insufficient evidence of carcinogenicity in humans, IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans." Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Health and Safety Administration (OSHA).

TGIC: This product contains <7% TGIC, which has been incorporated with other resins and pigments into a homogeneous powder. Pure TGIC is skin sensitizer and eye and respiratory tract irritator. TGIC at this level exhibits much lower toxicity levels. Still, good safety practices dictates that exposure levels be minimized through use of recommended PPE, through proper handling techniques, and through adequate ventilation. Also, pure TGIC is suspected mutagen based on animal studies in male mice spermatogonial

cells. The impact of these results on humans has not been fully established but prolonged inhalation of high concentrations of dust containingTGIC should be avoided. The manufacturer of TGIC recommends that the permissible internal exposure limits of 0.025 mg/cubic meter(on a pure TGIC basis) should be used for protection of workers using or exposed to TGIC.

EMERGENCY AND FIRST AID PROCEDURES

In case eye contact, flush eyes thoroughly with water for at least 15 minutes and seek medical attention if symptoms persist.
For skin contact , wash with plenty of water.
If inhaled, obtain fresh air. If breathing difficulty continues, obtain medical help.

***** **SECTION V - FIRE FIGHTING MEASURES** *****

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICALS, WATERFOG
UNUSUAL FIRE AND EXPLOSION HAZARDS:

Dust suspended in the air creates potential fire hazard. Containers must be kept closed when not in use.

SPECIAL FIREFIGHTING PROCEDURE: Firefighters should use full protective equipment including breathing apparatus. Prevent despersing dust to avoid further fire or explosion.

HAZARDOUS COMBUSTION PRODUCTS Heat will produce fumes possibly containing carbon monoxide, aldehydes, and carbon dioxide.

FLASH POINT: N/A **FLAMMABLE LIMITS IN AIR BY VOLUME:** LOWER N/A HIGHER N/A

*******SECTION VI-ACCIDENTAL RELEASE MEASURES*******

NECESSARY STEPS IN CASE OF MATERIAL SPILLED OR RELEASED

Remove all sources of ignition. Use vacuum equipment. Avoid breathing dust.

WASTE DISPOSAL METHOD

Dispose in accordance with federal, state, local laws.

OTHER PRECAUTIONS

- Prevent prolonged exposure to skin and contact with eyes.
- Do not take internally.
- Avoid breathing fumes when curing.
- Keep containers closed after use.
- Wash hands after handling product and especially before eating or smoking.

***** **SECTION VII - HANDLING AND STORAGE** *****

PROPER HANDLING AND STORING

Do not store above 80 degrees Fahrenheit. Keep away from heat, sparks, and flame.

***** SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION *****

RESPIRATORY PROTECTION

Use N I O S H Approved respirator prevent breathing dust or fumes. In confined spaces,

Use N I O S H/M S H A approved air respirator. Refer to OSHA 29 DFR 1910.134

Respiratory Protection. Follow manufacturer directions for proper respirator use.

VENTILATION

Use general dilution and local exhaust ventilation in volume and pattern to keep the air
contaminant concentration below OSHA requirements.

EYE PROTECTION

Use dust protective goggles.

HAND PROTECTION

For prolonged contact, wear impermeable gloves.

Wash hands after handling product.

PROTECTIVE CLOTHING

Wear long-sleeved shirt.

Wash contaminated clothing before reuse.

***** SECTION IX - PHYSICAL/CHEMICAL PROPERTIES *****

SPECIFIC GRAVITY	>1.15	PH	N/A
EVAPORATION RATE	N/A	Relative Density	N/A
SOLUBILITY IN WATER	Negligible	Melting/Freezing point	N/A
APPEARANCE	dry fine	Partition of Coefficient	N/A
	powder		
BOILING RANGE	N/A	Auto-Ignition Temp	375 deg. C
VAPOR DENSITY	N/A	Decomposition Temp	N/A
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	N/A		
ORDOR	N/A	Viscosity	N/A
VAPOR PRESSURE	N/A	Flash Point	N/A

***** SECTION X - STABILITY AND REACTIVITY *****

STABILITY: Stable

CONDITIONS TO AVOID: Extreme high temperatures

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS: Heat will produce fumes possibly containing carbon dioxide, carbon monoxide, and aldehydes.

HAZARDOUS POLYMERIZATION: Will not occur

***** **SECTION XI - TOXICOLOGICAL INFORMATION** *****

CHRONIC HEALTH HAZARDS

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

TOXICOLOGY DATA

CAS NO.	Ingrediant Name	Concentration			
2451-62-9	1,3,5-TRIGLYCIDYL ISOCYANURATE	1-15%	LC50 RAT LD50 RAT	4 HRS	N/A 188mg/kg
1333-86-4	CARBON BLACK	0-2%	LC50 RAT LD50 RAT	4 HRS	N/A N/A

Information on likely routes of exposure: Inhalation : Ingestion and skin or eye contact.
Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity:	1,3,5- Triglycidyl Isocyanurate	Category 3
Acute dermal toxicity:	Not classified according to GHS creteria	
Acute Inhalation toxicity:	1,3,5- Triglycidyl Isocyanurate	Category 2
Skin corrosion/irritation:	Not classified according to GHS creteria	
Seriuos eye damage/eye irritation:	1,3,5- Triglycidyl Isocyanurate	Category 1
Respiratory sensitisation:	Not classified according to GHS creteria	
Skin sensitisation:	1,3,5- Triglycidyl Isocyanurate	Category 1
Germ cell mutagenicity:	1,3,5- Triglycidyl Isocyanurate	Category 1B
Carcinogenicity:	Not classified according to GHS creteria	
Toxicity for reproduction:	Not classified according to GHS creteria	
Target Organ Systemic Toxicant- Sinle exposure:	Not classified according to GHS creteria	
Target Organ Systemic Toxicant- Repeated exposure:	No data available.	
Aspiration toxicity:	Not classified according to GHS creteria	
Numerical measure of toxicity:	No information available.	

***** **SECTION XII - ECOLOGICAL INFORMATION** *****

ECOTOXICOLOGICAL INFORMATION

There are no data availableon the product itself. The product should not be allowed to enter drains or watercourses.

***** **SECTION XIII - DISPOSAL CONSIDERATIONS** *****

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Incinerate in approved facility. Dispose in accordance with federal, state, local laws.

***** **SECTION XIV - TRANSPORT INFORMATION** *****

US Ground (DOT)

Not Regulated

ICAO / IATA

Not Regulated

***** **SECTION XV - REGULATORY INFORMATION** *****

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory

***** **SECTION XVI - OTHER INFORMATION** *****

Abbreviation: ACGIH-American Conference of Governmental industrial Hygienists, TSCA-Toxic Substance Control Act DOT-Department of Transportation, PEL-Permissible exposure level, PPE- Personal Protective Equipment, IATA-International Air Transport Association, ICAO-International Civil Aviation Organization

Issue date: 04/10/2018

DISCLAIMER

THE ABOVE INFORMATION IS CONSIDERED TO BE ACCURATE BASED ON DATA RECEIVED FROM OUR RAW MATERIAL SUPPLIERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, NO WARRANTY IS ISSUED REGARDING THE ACCURACY OR COMPLETENESS OF THESE DATA.
ROYAL POWDER CORPORATION ASSUMES NO LEGAL LIABILITY FOR RESULTS OBTAINED FROM THE USE OF THIS PRODUCT.

End of **SDS**