

T091-GN57 VERDIGRIS

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: T091-GN57 VERDIGRIS **PRODUCT USE: Industrial Powder Coating**

MANUFACTURER 24 HR. EMERGENCY TELEPHONE NUMBER

Cardinal Paint and Powder CHEMTREC (US Transportation): (800)424-9300 **CHEMTREC (International Transportation)**: (202)483-7616 1329 Potrero Ave

S. El Monte, CA, 91733 WEB: WWW.CARDINALPAINT.COM 626 444-9274

2. HAZARDS IDENTIFICATION

PICTOGRAMS:



SIGNAL WORD: DANGER

HAZARD STATEMENTS:

H412 Harmful to aquatic life with long lasting effects.

H340 May cause genetic defects.

H351 Suspected of causing cancer.

H317 May cause an allergic skin reaction.

H372 Causes damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage.

PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.

P260 Do not breathe dust.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P202 Do not handle until all safety precautions have been read and understood.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number	
1,3,5-Triglycidyl Isocyanurate	1% - 5%	2451-62-9	
Titanium Dioxide	1% - 5%	13463-67-7	
Carbon Black	0.10% - 0.50%	1333-86-4	

4. FIRST AID MEASURES

Description of first aid measures.

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.



SAFETY DATA SHEET

ISSUED: 8/28/2018 **REFERENCE:** GN57-T091

SKIN CONTACT: Remove affected clothing and wash all exposed area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Wash with plenty of soap and water. Get medical advice/attention. Wash contaminated clothing before reuse. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

INGESTION: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a Poison Center or doctor/physician if you feel unwell

INHALATION: Allow Victim to breathe fresh air. Allow victim to rest. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Center or doctor/physician if you feel unwell

Most important symptoms and effect, both acute and delayed: Symptoms/Injuries: May cause genetic defects. Causes damage to organs. - After Inhalation: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause an allergic skin reaction. May cause cancer by inhalation. - After Eye Contact: Causes serious eye damage. - After Ingestion: Swallowing a small quantity of this material may result in serious health hazard. Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Foam, alcohol foam, dry chemical, carbon dioxide, water fog or sand.

UNSUITABLE EXTINGUISHING MEDIA: Do not use heavy water stream.

FIRE FIGHTING PROCEDURE: Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protection during firefighting: Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure modes.

UNUSUAL FIRE AND EXPLOSION HAZARD: This product is stable at normal handling and storage conditions.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES : General measures: Remove ignition sources. Use special care to avoid static electric charges. No smoking.

FOR NON-EMERGENCY PERSONNEL: For non-Emergency procedures: Evacuate unnecessary personnel.

FOR EMERGENCY RESPONDERS : Protective equipment : Equip cleanup crew with proper protection. - Emergency procedures : Ventilate area.

ENVIRONMENTAL PRECAUTIONS: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public water. Avoid release to the environment.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP: On land, sweep or shovel into suitable containers,. Minimize generation of dust.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when you are leaving work. Provide good ventilation in process area. Use only in well ventilated areas. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Avoid breathing dust, fumes and/or vapors.

Hygiene measures: Wash Skin thoroughly after handling.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES: Avoid heat sources and direct sunlight. Store in a dry place. Protect from moisture. Keep container closed when not in use. Keep only in the original container in a cool well ventilated place away from heat, ignition sources and direct sunlight.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Source of ignition. Direct sunlight.



8. EXPOSURE CONTROLS\PERSONAL PROTECTION

1,3,5-Triglycidyl Isocyanurate(2451-62-9)			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	0.05 mg/m3 8 hours	
2-Mercaptobenzothiazole(149-30-4)		<u>-</u>	
USA WEEL	(WEEL) TWA	5 mg/m3	
Aluminum Oxide(1344-28-1)			
USA OSHA	(OEL) Table Z-1, TWA	15 mg/m3	
USA ACGIH	(TLV) TWA	1 mg/m3	
Amorphous Pyrogenic Silica(112945-52-	5)	-	
USA OSHA	USA OSHA TWA (OEL Table Z-3)	80 mg/m3 3/%SiO2	
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3	
Amorphous Silica(112926-00-8)			
USA OSHA	USA OSHA TWA (Table Z-1)	6 mg/m3	
USA OSHA	USA OSHA TWA (Tabla Z-3)	20 Million particals per cubic foot.	
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3	
Carbon Black(1333-86-4)			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	3 mg/m3 8 hours	
OSHA PEL (Permissible Exposure Limit)	TWA (Time Weighted Average)	3.5 mg/m3 8 hours	
NIOSH REL (Recommended Exposure	TWA (Time Weighted Average)	3.5 mg/m3 8 hours	
Limit)			
NIOSH REL (Recommended Exposure	TWA (Time Weighted Average)	0.1mg of PAHs/cm3 10 hours	
Limit)			
Crystalline Silica(14808-60-7)			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	0.025 mg/m3 8 hours	
Limestone(1317-65-3)			
ACGIH	Not Applicable	Not Applicable	
OSHA PEL (Permissible Exposure Limit)	TWA (Time Weighted Average)	15 mg/m3 (Total Dust) 8 hours	
OSHA PEL (Permissible Exposure Limit	TWA (Time Weighted Average)	5 mg/m3 (Respirable Fraction) 8 hours	
NIOSH REL (Recommende Exposure LImit)	TWA (Time Weighted Average)	15 mg/m3 (Total Dust) 8 hour	
NIOSH REL (Recommende Exposure	TWA (Time Weighted Average)	5 mg/m3 (Respirable Fraction) 8	
LImit)		hours	
Silicon Dioxide(7631-86-9)			
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3	
USA OSHA	USA OSHA TWA (Table Z-3)	20 mppcf	
Titanium Dioxide(13463-67-7)	I =		
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	10 mg/m3 8 hours	
OSHA PEL (Permissible Exposure Limit)	TWA (Time Weighted Average)	15 mg/m3 8 hours	

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Wear approved dust mask.

HAND PROTECTION: Wear protective gloves.

EYE PROTECTION: Chemical goggles or safety glasses.

SKIN AND BODY PROTECTION: Wear suitable protective clothing.

WORK HYGIENIC PRACTICES: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Solid
Melting point	:	55 - 90 deg C
Flash point	:	No data available.
Lower explosion limit	:	10 g/m ³
Upper explosion limit	:	70 g/m ³
Density	:	1.7100
Solubility	:	No data available.
Autoignition temperature	:	No data available.
Decomposition temperature	:	No data available.

10. STABILITY AND REACTIVITY

REACTIVITY: This product is stable at normal handling and storage conditions.

CHEMICAL STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Direct sunlight. Extremely high or low temperatures.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Fume. Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

1,3,5-Triglycidyl Isocyanurate(2451-62-9)		
Acute toxicity - LD50 - oral - rat	100 - 200 mg/kg	
Acute toxicity - LC50 - inhalation - rat - male - 4 h	> 650 mg/m3	
Acute toxicity - LD50 - Dermal - rat- male & female	> 2000 mg/kg	
Skin irritation - rabbit	Mild skin irritation - 24 hours	
Eye irritation - rabbit	Severe eye irritation	
Respiratory or skin sensation - Maximization test - guinea pig	May cause sensitization by skin contact	
Germ cell mutagenicity	In vivo tests showed mutagenic effects	
Germ cell mutagenicity - AMES test - S. typhimurium	Positive	
Germ cell mutagenicity - AMES test - mouse - male	Positive	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC	
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH	
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP	
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA	
Reproductive toxicity	No data available	
Specific target organ toxicity - single exposure	No data available	
Specific target organ toxicity - repeated exposure	No data available	
Aspiration hazard	No data available	
Additional information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated	
2-Mercaptobenzothiazole(149-30-4)		
Acute toxicity - LD50 - oral - male and femal rat	3800 mg/kg	
Acute toxicity - LC50 - inhalation - rat	> 1270 mg/m3	
Acute toxicity - LD50 - dermal - male and female rabbit	> 7940 mg/kg	



Skin irritation - rabbit	No skin irritation / 24 h
Eye irritation - rabbit	No eye irritation / 24 h
Respiratory or skin sensitisation - Buehler	May cause allergic skin reaction
test - guinea pig	May cause allergic skill reaction
Respiratory or skin sensitisation -	May cause allergic skin reaction
Maximisation test - guinea pig	May cause allergic skill reaction
Germ cell mutagenicity - Ames test - S.	Negative
typhimurium	Negative
Germ cell mutagenicity - male and female	Negative
mouse	Negative
IARC	No component of this product present at levels greater than or equal to
TARC	0.1% is identified as a probable, possible or confirmed human carcinogen by IARC
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to
	0.1% is identified as a known or anticipated carcinogen
OSHA	No component of this product present at levels greater than or equal to
001111	0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single	No data available
exposure	
Specific target organ toxicity - repeated	No data available
exposure	
Aspiration hazard	No data available
Additional information	Repeated dose toxicity - male and female rat - lowest observed adverse
, radicional información	effect level - 2500 mg/kg
Additional information	To the best of our knowledge, the chemical, physical, and toxicological
	properties have not been thoroughly investigated
Aluminum Oxide(1344-28-1)	, , , , , , , , , , , , , , , , , , ,
Acute toxicity - LD50 - oral - rat	> 10,000 mg/kg
Acute toxicity - LC50 - inhalation - rat	> 2.6 mg/L / 4 h
Acute toxicity - dermal	No data available
Skin irritation - rabbit	No skin irritation
Eye irritation - rabbit	No eye irritation
Respiratory or skin sensitisation -	DId not cause sensitisation on laboratory animals
maximisation test - guinea pig	Statiot cause sensitisation on laboratory animals
Germ cell mutagenicity	No data available
Carcinogenicity	This product is or contains a component that is not classifiable as to its
	carcinogenicty based on its IARC, ACGIH, NTP, or EPA classification
IARC	No component of this product present at levels greater than or equal to
	0.1% is identified as a probable, possible or confirmed human carcinogen by IARC
NTP	No component of this product present at levels greater than or equal to
	0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to
	0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single	No data available
exposure	
Specific target organ toxicity - repeated	No data available
exposure	
Aspiration hazard	No data available
Additional information	Cough, chest pain, difficulty in breathing, gastrointestinal disturbance
Addittional information	Liver irregularities based on human evidence
Amorphous Pyrogenic Silica(112945-52-5)	
Acute toxicity - Inhalation	No data available
Acute toxicity - Dermal	No data available
Skin irritation	No data available
Respiratory or skin sensation	No data available
Germ cell mutagenicity - rat - lungs	Body fluid assay
Germ cell mutagenicity - rat	Unscheduled DNA synthesis
Carcinogenicity - Rat - Inhalation	Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or
Caremogerially Rat Inhalation	respiration: tumors
IARC	Not classifiable as to its carcinogenicity to human
ACGIH	No component of this product present at levels greater than or equal to
7100111	0.1% is identified as a carcinogen or potential carcinogen by ACGIH
	1 512 75 15 lacination as a carellogen of potential carellogen by Acoth



NTP	No component of this product present at levels greater than or equal to 0.1% is identified as as known or anticipated carcinogen
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated	No data available
exposure	Ma data available
Aspiration hazard	No data available
Additional information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Additional information	Stomach irregularities based on human evidence
Amorphous Silica(112926-00-8)	
Acute toxicity	no data available
Acute toxicity: Inhalation	no data available
Acute toxicity: Dermal	no data available
Skin irritation	no data available
Eye irritation	no data available
Respiratory or skin sensation	no data available
Germ cell mutagenicity	no data available
Carcinogenicity: IARC: Group 3:	not classifiable as to its carcinogenicity to humans
ACGIH	no component of this product present at levels greater than or equal to
ACGIT	0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	no component of this product present at levels greater than or equal to
INTP	
OCIIA	0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	no data available
Specific target organ toxicity - single	no data available
exposure	
Specific target organ toxicity - repeated exposure	no data available
Aspiration hazard	no data available
Additional information	Amorphous silica is not classified as to its carcinogenicity to humans, however, crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1, IARC). Therefore, amorphous silica should be handled as if possessing the same hazards as the crystalline form. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional information	Stomach - irregularities - based on human evidence
Barium Sulfate(7727-43-7)	Scottiden in egalarices susce on namen evidence
Acute toxicity - inhalation	No data available
Acute toxicity - Dermal	No data available
Skin irritation	No data available
Eye irritation	No data available No data available
Respiratory or skin sensation	No data available No data available
Germ cell mutagenicity - mouse -	No reported data
micronucleus test	140 reported data
Carcinogenicity - rat - intrapleural - tumorigenic	Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
	No data available
Aspiration hazard	110 0000 01010



Additional information	
	Prolonged inhalation of dust may cause baritosis, a benign
1	pneumoconiosis. If ingested, the presence of soluble barium salts as
	impurities may cause toxic reactions due to bioaccumulation., Damage to
	the lungs., To the best of our knowledge, the chemical, physical, and
	toxicological properties have not been thoroughly investigated.
Additional information	Stomach irregularities - based on human evidence
Carbon Black(1333-86-4)	
LD50 Oral - Rat	> 8,000 mg/kg, male and female, (OECD Test Guideline 401)
LD50 Inhalation - Rat	No data available
LD50 Dermal - Rabbit	> 3,000 mg/kg
Skin corrosion/irritation	No skin irritation - 24 h, (OECD Test Guideline 404)
	No skill illitation (OECD Test Guideline 404)
Eye damage/irritation - Rabbit	No eye irritation, (OECD Test Guideline 405)
Respiratory/skin sensitization - Guinea pig	Did not cause sensitization on laboratory animals, (OECD Test Guideline
	406)
Germ cell mutagenicity	Ames test, S. typhimurium, negative
Hamster - Ovary	Negative
DNA repair - Rat - Female	Negative
Carcinogenicity - Rat - Inhalation	Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or
	Respiration: Tumors. This product is or contains a component that has
	been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP,
	or EPA classification. Limited evidence of carcinogenicity in animal studies.
IARC	2B - Group 2B: Possibly carcinogenic to humans (carbon black)
NTP	No component of this product present at levels greater than or equal
	to 0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than 0.1% is
OSTIA	identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Organ toxicity	Specific target organ toxicity - single exposure: No data available
Organ toxicity	Specific target organ toxicity - repeated exposure: No data available
Aspiration hazard	No data available
Additional Information	RTECS: FF5800000 To the best of our knowledge, the chemical , physical,
	and toxicological properties have not been throughly investigated.
Crystalline Silica(14808-60-7)	
Acute Inhalation toxicity	no data available
Acute Dermal toxicity	no data available
Skin irritation	no data available
eye irritation	no data available
Respiratory or skin sensation	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	Limited evidence of carcinogenicity in human studies
IARC	Group 1: Carcinogenic to humans (Quartz)
ACGIH	No component of this product present at levels greater than or equal to
ACGIH	
NED	0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	Known to be human carcinogen (Quartz)
OSHA	No component of this product present at levels greater than or equal to
	0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	no data available
Specific target organ toxicity - single	no data available
exposure	
Specific target organ toxicity - repeated	may cause damage to organs through prolonged or repeated exposure
exposure - innalation	
exposure - inhalation Aspiration hazard	no data available
Aspiration hazard	no data available Prolonged inhalation of crystalline silica may result in silicosis, a disabling
	Prolonged inhalation of crystalline silica may result in silicosis, a disabling
Aspiration hazard	Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules
Aspiration hazard	Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased
Aspiration hazard	Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced
Aspiration hazard	Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stage, loss of appetite, pleuric pain, and total incapacity to work.
Aspiration hazard	Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stage, loss of appetite, pleuric pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction
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Limestone(1317-65-3) Draize test, rabbit, skin S00 mg/24H moderate Draize test, rabbit, skin S00 mg/24H moderate S00 mg/		
Draize test, rabbit, skin 500 mg/24H moderate 6150 mg/kg		
Gray, Part: LDSO 6450 mg/kg ACGIH, JARC, NTP, CA Prop 65 Not listed Epidemiology No information available Teratogenicity No information available Reproductive effects No information available Mutagenicity No information available Mutagenicity No information available Silicon Dioxide(7631-86-9) Acute toxicity - Inhalation No data available Acute toxicity - Jerman No data available Skin intritation No data available Skin intritation No data available Respiratory or skin sensitisation No data available No component of this product present at levels greater than or equal to O.1% is identified as as contingen or potential carcinogen by ACGIH NTP No component of this product present at levels greater than or equal to No component of this product present at levels greater than or equal to No carbon productive toxicity No data available Reproductive toxicity - ripeated Reproductive toxicit		
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Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information No data available To the best of our knowledge, the chemical, physical, and toxicological		0.1% is identified as a carcinogen or potential carcinogen by OSHA
Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information No data available To the best of our knowledge, the chemical, physical, and toxicological		No data available
exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information No data available To the best of our knowledge, the chemical, physical, and toxicological		
exposure Aspiration hazard No data available Additional information To the best of our knowledge, the chemical, physical, and toxicological	, , , , , , , , , , , , , , , , , , , ,	
exposure Aspiration hazard No data available Additional information To the best of our knowledge, the chemical, physical, and toxicological	Specific target organ toxicity - repeated	No data available
Aspiration hazard Additional information No data available To the best of our knowledge, the chemical, physical, and toxicological		
Additional information To the best of our knowledge, the chemical, physical, and toxicological		No data available



12. ECOLOGICAL INFORMATION

1.2 F Trial raid of Taran mate (24F1 C2 O)	
1,3,5-Triglycidyl Isocyanurate(2451-62-9) Toxicity to fish - static test LC50 - danio	> 77 mg/l - 96 h
rerio (zebra fish)	> // mg/l - 96 fl
Toxicity to daphnia and other aquatic	> 100 mg/l - 24 h
invertebrates - Immobilization - EC50 -	
daphnia magna (water flea)	
Toxicity to algae - growth inhibition - EC50	29 - 30 mg/l - 72 h
 Desmodesmus subspicatus 	
Toxicity to bacteria - Respiration inhibition - IC50 - Sludge Treatment	> 100 mg/l 3 h
Persistence and degradability -	0.5 - 1% - not biodegradable
biodegradability - aerobic - exposure time:	
44 d	
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT & vPvB	not available/not required
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects
2-Mercaptobenzothiazole(149-30-4)	
Toxicity to fish - flow-through test - LC50 - rainbow trout	0.73 mg/L / 96 h
Toxicity to daphnia and other aquatic	0.71 mg/L / 48 h
invertebrates - immobilization EC50 -	0.71 mg/L / 40 m
Daphnia magna (water flea)	
Toxicity to algae - growth inhibition - EC50	0.5 mg/L - 72 h
- green algae	0.5 mg/L 72 m
Persistence and degradability -	1% - not readily biodegradable - exposure time: 28 d
biodegradability - biotic/aerobic	170 Hot readily blodegradable exposure time. 20 d
Bioaccumulative potential -	0.1 mg/L / 42 d
bioaccumulation - carp	0.1 mg/L / 42 d
Bioaccumulative potential -	< 0.8
Bioconcentration factor	
Mobility in soil	No data available
PBT and vPvB	Not available/not required
Other adverse effects	An environmental hazard cannot be excluded in the event of
	unprofessional handling or disposal. Very toxic to aquatic life with long
	lasting effects.
Aluminum Oxide(1344-28-1)	
Toxicity	No toxicity at the limit of solubility
Persisitence and degradability	The methods for determining biodegradability are not applicable to
	inorganic substances
Bioaccumulative potential	Does not bioaccumulate
Mobility in soil	No data available
PBT and vPvB	Not available/not required
Other adverse effects	No data available.
Amorphous Pyrogenic Silica(112945-52-5)	
Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	not available/not required
Amorphous Silica(112926-00-8)	
Toxicity	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB	not available/not required
Barium Sulfate(7727-43-7)	
Toxicity	No data available
Persistence and degradability	The methods for determining biodegradability are not applicable in
	inorganic substances
Bioaccumulative potential	No data available



Mobility in soil	No data available
PBT and vPvB	not available/not required
Carbon Black(1333-86-4)	
Toxicity to fish LC50	Danio rerio (zebra fish) >1000 mg/l - 96 h
EC50 Toxicity to daphnia and other aquatic invertebrates	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202)
EC50 Toxicity to algae	Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201)
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	Not available/not required
Crystalline Silica(14808-60-7)	
Toxicity	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB	not available/not required
Limestone(1317-65-3)	· · · · · · · · · · · · · · · · · · ·
Ecotoxicity	No data available
Environmental	No information reported
Physical	No information available
Silicon Dioxide(7631-86-9)	
Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvP	Not available/not required
Titanium Dioxide(13463-67-7)	,
Toxicity to fish - LC50 - other fish	> 1000 mg/L / 96 h
Toxicity to daphnia and other aquatic	> 1000 mg/L / 48 h
invertebrates - EC50 - Dapphnia magna	<i>3.</i> ,
(water flea)	
Toxicity to daphnia and other aquatic	1000 mg/L / 48 h
invertebrates - EC0 - Daphnia magna	
(water flea)	
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPbV	Not available/not required
Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

GENERAL INFORMATION: No data available.

DISPOSAL METHOD: Dispose of in accordance with Local, State, Regional, National and International Regulations.

Ecology - waste materials: Avoid release to the environment.

14. TRANSPORT INFORMATION

*CHECK WITH YOUR CARRIER FOR ADDITIONAL RESTRICTIONS THAT MAY APPLY.

USDOT GROUND

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME (DOT): Not Regulated/Not Applicable

HAZARDS CLASS: None

UN/NA NUMBER: Not Applicable

PACKING GROUP: None

EMERGENCY RESPONSE GUIDE (ERG): Not Applicable

IATA (AIR)

DOT (INTERNATIONAL AIR TRANSPORTATION ASSOCIATION)

PROPER SHIPPING NAME: Not Regulated/Not Applicable

HAZARDS CLASS: Not Applicable UN/NA NUMBER: Not Applicable PACKING GROUP: Not Applicable

EMERGENCY RESPONSE GUIDE (ERG): Not Applicable

IMDG (OCEAN)

PROPER SHIPPING NAME: Not Regulated, Not Applicable

HAZARDS CLASS: Not Applicable UN/NA NUMBER: Not Applicable PACKING GROUP: Not Applicable

EMERGENCY RESPONSE GUIDE (ERG): Not Applicable

MARINE POLLUTANT: No

SPECIAL PRECAUTIONS: P235 Keep cool.



SAFETY DATA SHEET

ISSUED: 8/28/2018 REFERENCE: GN57-T091

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS
All ingredients are TSCA (Toxic Substance Control Act) listed.

OSHA HAZARDS: Moderate skin irritant, Moderate eye irritant.

EPCRA - Emergency

CERCLA REPORTABLE QUANTITY

SARA 304 Extremely Hazardous Substances Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard.

This product contains:	Chemical CAS#
1,3,5-Triglycidyl Isocyanurate	2451-62-9
Titanium Dioxide	13463-67-7
Carbon Black	1333-86-4

SARA 313: No SARA 313 chemicals are present

CLEAN AIR ACT:

INTERNATIONAL REGULATIONS

CLASSIFICATION ACCORDING TO REGULATION (EC) No. 1272/2008 (CLP):

Eye Dam. 1 H318 Causes serious eye damage
Skin Sens. 1 H317 May cause an allergic skin reaction
Muta. 1B H340 May cause genetic defects
Carc. 2 H351 Suspected of causing cancer

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects

NATIONAL REGULATIONS

This product contains:	Chemical CAS#
~Titanium Dioxide	13463-67-7
~Carbon Black	1333-86-4

National Regulations Key

~ Indicates a chemical listed by IARC as a possible carcinogen.

^ Indicates a chemical listed by IARC as carcinogenic to humans.



STATE REGULATIONS CALIFORNIA PROPOSITION 65

This product contains:	Chemical CAS#
*Titanium Dioxide	13463-67-7
*Carbon Black	1333-86-4
*Crystalline Silica	14808-60-7
*2-Mercaptobenzothiazole	149-30-4

Proposition 65 Key

WARNING: This product can expose you to a chemical(s), including those listed above, which is (are) known to the State of California to cause cancer.

For more information visit <u>WWWPROP65.CA.GOV</u>.

WARNING: This product can expose you to a chemical(s), including those listed above, which is (are) known to the State of California to cause birth defects or other reproductive harm.

For more information visit <u>WWWPROP65.CA.GOV</u>.

WARNING: This product can expose you to a chemical(s), including those listed above, which is (are) known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information visit WWWPROP65.CA.GOV.

Massachusetts Right to Know

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Limestone	1317-65-3
Titanium Dioxide	13463-67-7
Carbon Black	1333-86-4
Amorphous Silica	112926-00-8
Silicon Dioxide	7631-86-9
Crystalline Silica	14808-60-7
Aluminum Oxide	1344-28-1

Pennsylvania Right to Know

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Limestone	1317-65-3
Titanium Dioxide	13463-67-7
Carbon Black	1333-86-4
Amorphous Silica	112926-00-8
Silicon Dioxide	7631-86-9
Crystalline Silica	14808-60-7
2-Mercaptobenzothiazole	149-30-4
Amorphous Pyrogenic Silica	112945-52-5
Aluminum Oxide	1344-28-1



New Jersey Right to Know

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Limestone	1317-65-3
1,3,5-Triglycidyl Isocyanurate	2451-62-9
Titanium Dioxide	13463-67-7
Carbon Black	1333-86-4
Amorphous Silica	112926-00-8
Silicon Dioxide	7631-86-9
Crystalline Silica	14808-60-7
2-Mercaptobenzothiazole	149-30-4
Amorphous Pyrogenic Silica	112945-52-5
Aluminum Oxide	1344-28-1



RDINAL SAFETY DATA SHEET

ISSUED: 8/28/2018 REFERENCE: GN57-T091

16. OTHER INFORMATION

Other Product Information:

% Volatile by Volume : 0.00 % Volatile by Weight : 0.00 % Solids by volume : 100.00 % Solids by Weight : 100.00

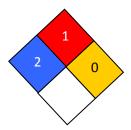
VOC CONTENT:

Content tested per EPA METHOD 24, ASTM D2369 is less than 1% Wt/Wt.

HMIS RATING

Health :	2
Flammability :	1
Reactivity:	0
Personal Protection :	Е

NFPA CODES



MANUFACTURER DISCLAIMER: The information contained in this Safety Data Sheet is considered to be true and accurate. Cardinal Paint and Powder makes no warranties, expressed or implied, as to the accuracy and adequacy of this information. This data is offered solely for the user's consideration, investigation and verification.