

E305-GR533 GRAY

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: E305-GR533 GRAY

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: WARNING

HAZARD STATEMENTS:

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H317 May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.

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

P260 Do not breathe dust.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
Titanium Dioxide	15% - 20%	13463-67-7
Bisphenol A	1% - 5%	80-05-7
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.

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.



SAFETY DATA SHEET

ISSUED: 8/22/2018 **REFERENCE:** GR533-E305

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

INHALATION: Allow victim to breathe fresh air. Allow victim to rest. Remove to fresh air and keep at rest in a position comfortable to breath. 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

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)			
Glycerol(56-81-5)			
USA ACGIH	USA ACGIH TWA (TLV)	10 mg/m3	
USA OSHA	USA OSHA TWA (OEL) Table Z-1	15 mg/m3	
Iron Oxide(1309-37-1)			
USA ACGIH	USA ACGIG (TLV) TWA	5 mg/m3	
USA OSHA	USA OSHA (OEL) TWA Table Z-1	15 mg/m3	
USA NIOSH	USA NIOSH (REL) TWA	5 mg/m3	
Titanium Dioxide(13463-67-7)			
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	:	1.5672
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: Strong acids. Strong bases.

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



11. TOXICOLOGICAL INFORMATION

Acute toxicity: Inhalation no data available 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 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 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 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 component of this product present at levels greater than or equal to no data available no component of this product present at levels greater than or equal to no data available no	A	
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Acute toxicity - inhalation - LC50 - male 170 mg/m3 / 6 h		J. J
		170 mg/m3 / 6 h
	and female rat	- Ji ···- i - ··



Acute toxicity - dermal - LD50 - rabbit	6400 mg/kg
Skin irritation - rabbit	No skin irritation / 4 h
Eye irritation - rabbit	Severe eye irritation / 24 h
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity - Ames test - S.	Negative
	Negative
typhimurium	No. 12
Germ cell mutagenicity - male and female	Negative
mouse	
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
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 targtet organ toxicity - single	Inhalation - may cause respiratory irritation
exposure	Initiation may eause respiratory initiation
Specific target organ toxicity - repeated	No data available
	ivo data avaliable
exposure	No data available
Aspiration hazard	No data available
Additional information - repeated dose	Lowest observed adverse effect level - 600 mg/kg
toxicity - male and female rat - oral	
Additional information	To the best of our knowledge, the chemical, physica, and toxicological properties have not been thoroughly investigated.
Additional information	Stomach irregularities based on human evidence
Carbon Black(1333-86-4)	Stormach in equiumities based on maintain evidence
	> 0.000 mg/kg, male and female (OECD Test Cuideline 401)
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)
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
	to0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than 0.1% is
	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.
Glycerol(56-81-5)	The state of the s
Acute toxicity - LD50 - oral - rat	12,600 mg/kg
Acute toxicity - inhalation	No data available
Acute toxicity - LD50 - dermal - rabbit	> 10,000 mg/kg
Skin irritation - rabbit	Mild skin irritation / 24 h
Eye irritation - rabbit	Mild eye irritation / 24 h
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
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
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	Prolonged or repeated exposure may cause: nausea headache, vomitting
Additional information	To the best of our knowledge, the chemical, physical, and toxicological
	porperties have not been thoroughly investigated.
Additional information	Kidney irregularities based on human evidence
Iron Oxide(1309-37-1)	
Acute toxicity	No data available
Acute toxicity - dermal	`No data available
Skin irritation - human	Skin irritation
Eye irritation - human	Moderate eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity - rat - subcutaneous	Equivocal tumorogenic agent by RTECS criteria. Tumors at site of appilcation.
Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.
IARC	Group 3: not classifiable as to its carcinogeniciy to humans (diiron trioxide).
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a kown or anticpated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as ca carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	inhalation - may cause respiratory irritation.
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional information	Long term inhalation exposure to iron (oxide fume or dust) can cause siderosis. Siderosis is considered to be a benign pneumoconiosis and does not normally cause significant physiological impairment. Siderosis can be observed on x-rays with the lungs having a mottled appearance., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Titanium Dioxide(13463-67-7)	
Acute toxicity - LD50 - oral - rat	> 10000 mg/kg
Acute toxicity - inhalation	No data available
Acute toxicity - LD50 - dermal - rabbit	> 10000 mg/kg
Skin irritation - human	Mild skin irritation - 3 h
Eye irritation - rabbit	No eye irritation
Respiration or skin sensitisation	Will not occur
Germ cell mutagenicity - hamster - ovary - micronucleus test	No results available
Germ cell mutagenicity - hamster - lungs	DNA inhibition
Germ cell mutagenicity - hamster - ovary - sister chromatid exchange	No results available
Germ cell mutagenicity - mouse - micronucleus test	No results available
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
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	To the best of our knowledge, the chemical, physical, and toxicological
	properties have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

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
Bisphenol A(80-05-7)	
Toxicity to fish -flow-through test - LC50 - fathead minnow	4.6 mg/L / 96 h
Toxicity to daphnia and other aquatic invertebrates - static test EC50 - water flea	10.2 mg/L / 48 h
Toxicity to algae - static test EC50 - green	2.73 - 3.1 mg/L / 96 h
algae	
Persistence and degradability -	89% readily biodegradable - 28 d
biodegradability - aerobic	a same same same same same same same sam
Bioaccumulative potential -	0.015 mg/L / 42 d
bioaccumulation - carp	
Mobility in soil	No data available
PBT and vPvB	Not available/not required
Other adverse effects	An environmental hazard cannot be excluded in the endet of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.
Carbon Black (1222 06 4)	
Carbon Black(1333-86-4)	,
Toxicity to fish LC50	Danio rerio (zebra fish) >1000 mg/l - 96 h
	Danio rerio (zebra fish) >1000 mg/l - 96 h Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202)
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available Not available/not required
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5)	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available Not available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available Not available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available Not available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil Mobility in soil PBT and vPvB	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available Not available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available Not available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available Not available/not required No data available Not available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available No data available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available No data available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available No data available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available No data available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Titanium Dioxide(13463-67-7)	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available No data available/not required No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Titanium Dioxide(13463-67-7) Toxicity to fish - LC50 - other fish	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available Not available/not required No data available No data available
Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB assessment Glycerol(56-81-5) Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Iron Oxide(1309-37-1) Toxicity Persisitence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Other adverse effects Titanium Dioxide(13463-67-7)	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available No data available No data available/not required No data available



Toxicity to daphnia and other aquatic invertebrates - ECO - Daphnia magna (water flea)	1000 mg/L / 48 h
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

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: 8/22/2018 REFERENCE: GR533-E305

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#
Titanium Dioxide	13463-67-7
Bisphenol A	80-05-7
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):

Carc. 2 H351 Suspected of causing cancer

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

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
#Bisphenol A	80-05-7
*Carbon Black	1333-86-4
*2-Methylimdazole	693-98-1

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 WWWPROP65.CA.GOV.

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#
Titanium Dioxide	13463-67-7
Barium Sulfate	7727-43-7
Bisphenol A	80-05-7
Amorphous Silica	112926-00-8
Carbon Black	1333-86-4
Iron Oxide	1309-37-1
Glycerol	56-81-5

Pennsylvania Right to Know

This product contains	Chemical CAS#
Titanium Dioxide	13463-67-7
Barium Sulfate	7727-43-7
Bisphenol A	80-05-7
Amorphous Silica	112926-00-8
Carbon Black	1333-86-4
Iron Oxide	1309-37-1
2-Methylimdazole	693-98-1
Glycerol	56-81-5



New Jersey Right to Know

This product contains	Chemical CAS#
Titanium Dioxide	13463-67-7
Barium Sulfate	7727-43-7
Bisphenol A	80-05-7
Amorphous Silica	112926-00-8
Carbon Black	1333-86-4
Iron Oxide	1309-37-1
2-Methylimdazole	693-98-1
Glycerol	56-81-5



RDINAL SAFETY DATA SHEET

ISSUED: 8/22/2018 **REFERENCE:** GR533-E305

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

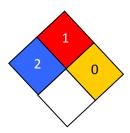
VOC CONTENT:

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

HMIS RATING

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

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.