

T091-GR309 MOCK ROCK

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: T091-GR309 MOCK ROCK **PRODUCT USE: Industrial Powder Coating**

MANUFACTURER

Cardinal Paint and Powder 1329 Potrero Ave S. El Monte, CA, 91733 626 444-9274

24 HR. EMERGENCY TELEPHONE NUMBER

CHEMTREC (US Transportation): (800)424-9300 CHEMTREC (International Transportation): (202)483-7616

WEB: WWW.CARDINALPAINT.COM

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
Titanium Dioxide	5% - 10%	13463-67-7
Hydrated magnesium silicate	1% - 5%	14807-96-6
1,3,5-Triglycidyl Isocyanurate	1% - 5%	2451-62-9
Carbon Black	0.50% - 0.99%	1333-86-4



RDINAL SAFETY DATA SHEET

ISSUED: 8/28/2018 **REFERENCE:** GR309-T091

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.

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.



SAFETY DATA SHEET

ISSUED: 8/28/2018 REFERENCE: GR309-T091

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

1.2 5 7 1 1 1 1 7 1 1 (2.451 62.0)				
1,3,5-Triglycidyl Isocyanurate(2451-62-9 ACGIH TLV (Threshold Limit Value)		0.05 mg/m2 0.baying		
Amorphous Silica(112926-00-8)	TWA (Time Weighted Average)	0.05 mg/m3 8 hours		
USA OSHA	USA OSHA TWA (Table Z-1)	6 mg/m3		
USA OSHA		20 Million particals per cubic foot.		
	USA OSHA TWA (Tabla Z-3)			
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3		
Butyl Acrylate(141-32-2)	(71) () 711/4			
USA ACGIH	(TLV) TWA	2 ppm		
USA NIOSH	(REL) TWA	10 ppm, 55 mg/m3		
Carbon Black(1333-86-4)	I			
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 Limit)	TWA (Time Weighted Average)	3.5 mg/m3 8 hours		
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		
E-Caprolactam(105-60-2)				
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	5mg/m3 8 hours		
USA NIOSH	USA NIOSH TWA (REL)	1 mg/m3		
USA NIOSH	USA NIOSH ST (REL)	3 mg/m3		
Hydrated magnesium silicate(14807-96-		1 - 3/		
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	2 mg/m3 (Respirable Fraction) 8 hours		
NIOSH REL(Recommended Exposure Limit)	TWA (Time Weighted Average)	2 mg/m3 (Respirable Fraction) 10 hours		
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		
Prop-2-enoic acid(79-10-7)				
ACGIH	TWA (Time Weighted Average)	2 ppm		
ACGIH	TWA (Time Weighted Average)	5.9 mg/m3		
Silicon Dioxide(7631-86-9)				
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3		
USA OSHA	USA OSHA TWA (REE)	20 mppcf		
Styrene(100-42-5)				
USA NIOSH	USA NIOSH TWA (REL)	50 ppm, 215 mg/m3		
USA NIOSH	USA NIOSH ST (REL)	100 ppm, 425 mg/m3		
USA OSHA	USA OSHA TWA (OEL) Table Z-2	100 ppm		
USA ACGIH	USA ACGIH STEL (TLV)	40 ppm		
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) TWA (Time Weighted Average)	15 mg/m3 8 hours		
OSHA FLE (FEITHISSIDIE EXPOSUIE LITTIL)	i i wa (iiiile weighted Average)	TO HIGHTIO O HOUIS		

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	:	0.2460
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 -	> 650 mg/m3
male - 4 h	-
Acute toxicity - LD50 - Dermal - rat- male	> 2000 mg/kg
& female	
Skin irritation - rabbit	Mild skin irritation - 24 hours
Eye irritation - rabbit	Severe eye irritation
Respiratory or skin sensation -	May cause sensitization by skin contact
Maximization test - guinea pig	
Germ cell mutagenicity	In vivo tests showed mutagenic effects
Germ cell mutagenicity - AMES test - S.	Positive
typhimurium	
Germ cell mutagenicity - AMES test -	Positive
mouse - male	
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
0.0114	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
Described to the College	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	No determinate
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
Additional information	properties have not been thoroughly investigated
Amorphous Silica(112926-00-8)	properties have not been thoroughly livestigated
Acute toxicity	no data available
Acute toxicity Acute toxicity: Inhalation	no data available
Acute toxicity: Initiation Acute toxicity: Dermal	no data available
Skin irritation	no data available
Eye irritation	no data available
Lye IIII.auoii	iiu uata availaule



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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 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	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)	The state of the s
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 - mouse - micronucleus test	No reported data
Carcinogenicity - rat - intrapleural -	Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or
tumorigenic	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
Aspiration hazard	No data available
Additional information	Prolonged inhalation of dust may cause baritosis, a benign 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
Butyl Acrylate(141-32-2)	
LD50 Oral - Rat - Acute Toxicity	900 mg/kg, Oral - Rat
LC50 Inhalation - Rat - Inhalation	2730 ppm, 4 h, Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Lungs, Thorax, or Respiration:Dyspnea.
LD50 Dermal - Rabbit	1.796 mg/kg, Rabbit
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available



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Carcinogenicity	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Butyl acrylate) IARC: No component of this product present at levels greater than or equal to 0.1% is identified as 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. 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. 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	May cause respiratory irritation.
exposure	
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: UD3150000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., Cough, Shortness of breath, Headache, Nausea, Vomiting Stomach - Irregularities - Based on Human Evidence (Mequinol).
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)
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 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)	and the second s
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 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
Penroductive toxicity	no data available
Reproductive toxicity Specific target organ toxicity - single exposure	no data available
Specific target organ toxicity - repeated exposure - inhalation	may cause damage to organs through prolonged or repeated exposure
CAPODATO IIITATAGOTI	I



Additional information Prolonged inhalation of crystalline silica may result in silicosis, a disablir pulmorary 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 advance stage, loss of appetite, pleuric pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruct of lung tissue. Crystalline silica is classified as prough? "Known to be carrinogenic to humans?" by IARC and "sufficient evidence" of lung tissue. Crystalline silica is classified as prough?" where is a limited understanding of the mechanisms of quartz toxicity, including its mechanisms for lung carcinogenicity. Additional studies or needed to determine whether the cell transforming activity of quartz is related to its carcinogenic potential. Additional information E-Caprolactam(195-60-2) Acute toxicity - LD50 - oral - rat 1210 mg/kg Semarks Sense organs and special senses (nose, eye, ear and taste): Eye: Chromodacryorrhea Chromodacryorrhea Behavioral Nutritional and Gross Metabolic - changes Behavioral Nutritional and Gross Metabolic - changes Behavioral Acute toxicity - LC50 - inhalation - rat Acute t		
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exposure		No data available
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Aspiration nazard No data available		March to a selection
	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
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	inhalation - may cause respiratory irritation.
exposure	initiation may cause respiratory influences.
Specific target organ toxicity - repeated	No data available
exposure	No data avaliable
Aspiration hazard	No data available
Additional information	Long term inhalation exposure to iron (oxide fume or dust) can cause
Additional information	
	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
D 2 : :1/70 10 7)	have not been thoroughly investigated.
Prop-2-enoic acid(79-10-7)	020
LD50 Oral - Mouse	830mg/m3
LC50 Inhalation - Rat	>5,100 mg/m3 - 4h
Dermal	No Data Available
Skin Corrosion/Irritation	Skin - Rabbit Result Severe Skin Irritation - 24h
Serious Eye Damage/Eye Irritation	Eyes - Rabbit Result - Severe Eye Irritation
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects This product is or contains a component that is not classifiable as to its
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Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects This product is or contains a component that is not classifiable as to its
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Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid)
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available No Data Available
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis.
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available No Data Available
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx,
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver irregularities - based on Human Evidence. Stomach irregularities - based
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard Additional Information Silicon Dioxide(7631-86-9)	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver irregularities - based on human evidence
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard Additional Information Silicon Dioxide(7631-86-9) Acute toxicity - inhalation	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver irregularities - based on Human Evidence. Stomach irregularities - based
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard Additional Information Silicon Dioxide(7631-86-9) Acute toxicity - inhalation Acute toxicity - dermal	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver irregularities - based on Human Evidence. Stomach irregularities - based on human evidence No data available No data available
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard Additional Information Silicon Dioxide(7631-86-9) Acute toxicity - inhalation Acute toxicity - dermal Skin irritation	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver irregularities - based on Human Evidence. Stomach irregularities - based on human evidence No data available No data available No data available No data available
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard Additional Information Silicon Dioxide(7631-86-9) Acute toxicity - inhalation Acute toxicity - dermal Skin irritation Eye irritation	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver irregularities - based on Human Evidence. Stomach irregularities - based on human evidence No data available
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard Additional Information Silicon Dioxide(7631-86-9) Acute toxicity - inhalation Acute toxicity - dermal Skin irritation Eye irritation Respiratory or skin sensitisation	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver irregularities - based on human evidence No data available
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard Additional Information Silicon Dioxide(7631-86-9) Acute toxicity - inhalation Acute toxicity - dermal Skin irritation Eye irritation Respiratory or skin sensitisation Germ cell mutagenicity	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver irregularities - based on human evidence No data available No data available
Serious Eye Damage/Eye Irritation Respiratory or Skin Irritation Germ Cel Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposur Specific Target Organ Toxicity-Repeated Exposure Aspiration Hazard Additional Information Silicon Dioxide(7631-86-9) Acute toxicity - inhalation Acute toxicity - dermal Skin irritation Eye irritation Respiratory or skin sensitisation	Eyes - Rabbit Result - Severe Eye Irritation Guinea Pig - Did not cause sensitization on laboratory animals Laboratory experiments have shown mutagenic effects 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 carcinogenicity to humans (Acrylic Acid) NTO: no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen No Data Available Inhalation - May cause respiratory irritation - Respiratory system No Data Available RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis. Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver irregularities - based on human evidence No data available



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
OSHA	0.1% is identified as a known or anticipated carcinogen by NTP 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
Additional information	Stomach irregularities based on human evidence (silicon dioxide)
Styrene(100-42-5)	Scottage in regularities based on Harrian evidence (Sincott dioxide)
Acute toxicity - LD50 - oral - rat	> 6000 mg/kg
Acute toxicity - LC50 - inhalation - rat	12000 mg/m3 / 4 h
Acute toxicity - LD50 - dermal - male and	> 2000 mg/kg
female rat	· 2000g
Skin irritation - rabbit	Skin irritation
Eye irritation - rabbit	Eye irritation / 24 h
Respiratory or skin sensitization -	Does not cause skin sensitization.
maximisation test - guinea pig	
Germ cell mutagenicity	Laboratory experiments haqve shown mutagenic effects.
Carcinogenicity	The product is or contains a component that has been reported to be
TARG	possible carcinogenic based on its IARC, NTP or EPA classification.
IARC	Group 2B - possible carcinogenic to humans
NTP	Reasonably anticipated to be carcinogenic to humans.
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	Suspected of damaging the unborn child. Suspected human reproductive toxicant.
Specific target organ toxicity - single exposure	No data available
specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	No data available
Additional information	Dermatitis, central nervous system depression, nausea, dizziness, headache. To the best of our knowledge, the chemical, physical, and toxicolgical properties have not been thoroughly investigated.
Additional information	Endocrine system
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 -	No results available
micronucleus test IARC	No component of this product propert at levels greater than an arrest to
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 exposure	No data available



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

1,3,5-Triglycidyl Isocyanurate(2451-62-9)	
Toxicity to fish - static test LC50 - danio	> 77 mg/l - 96 h
rerio (zebra fish)	, , , , , , , , , , , , , , , , , , ,
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	3,
Toxicity to bacteria - Respiration inhibition	> 100 mg/l 3 h
- IC50 - Sludge Treatment	
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
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
Butyl Acrylate(141-32-2)	
LC50 - Cyprinodon variegatus - Toxicity to	2.1 mg/l - 96 h, Cyprinodon variegatus (sheepshead minnow), (OECD
fish	Test Guideline 203)
EC50 - Daphnia magna - Toxicity to	1.3 mg/l - 48 h, Daphnia magna (Water flea), (OECD Test Guideline 202)
daphnia and other aquatic invertebrates	
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 80 - 90 % - Readily
	biodegradable (OECD Test Guideline 310)
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not
	required/not conducted.
Other adverse effects	An environmental hazard cannot be excluded in the event of
	unprofessional handling or disposal. Toxic to aquatic life. Avoid release to
Coult on Plant (1222 OC 4)	the environment.
Carbon Black(1333-86-4)	Dania wayia (rahwa fiah) > 1000 mag/L OC h
Toxicity to fish LC50	Danio rerio (zebra fish) >1000 mg/l - 96 h
EC50 Toxicity to daphnia and other aquatic	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline
invertebrates EC50 Toxicity to algae	202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test
ECSO TOXICITY to algae	, , , , , , ,
Porcistoned and degradability	Guideline 201)
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available Not available/not required
PBT and vPvB assessment	Not available/Hot required
Crystalline Silica(14808-60-7)	no data available
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
E-Caprolactam(105-60-2)	not available/ not required
Toxicity to daphnia and other aquatic	828 - 2920 mg/l - 48 h
	828 - 2920 mg/i - 48 n
invertebrates - EC50 - Daphnia magna	
(water flea)	
Toxicity to algae - EC50 - green algae	4320 - 4800 mg/l - 72 h
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	not available/not required
Other adverse effects	No data available.
	ivo data available.
Hydrated magnesium silicate(14807-96-6)	N. I. S.
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
Iron Oxide(1309-37-1)	· · · · · · · · · · · · · · · · · · ·
Toxicity	No data available
Persisitence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	Not available/not required
Other adverse effects	No data available
Prop-2-enoic acid(79-10-7)	
LC50 Toxicity to Fish - Oncorhynchus	27 mg/l 96 h Oncorhynchuss mykiss (Rainbow trout)
mykiss	27 mg/1 50 m oncomynendss mykliss (Nambow dodd)
EC50 Toxicity to Daphnia and other aquatic	95 mg/l - 48 h Daphnia magna (Water Flea)
	93 mg/1 - 46 m Dapinna magna (water riea)
invertebrates	0.04 (1.06) D
EC 50 Toxicity to algea - Desmodemus	0.04 mg/l - 96h Desmodemus subspicatus (green algea)
subspicatus	
Persistence and degradability	Biodegradability Biotic/Aerobic - Exposure time 28 d Result 100% -
	Readiliy Biodegradable
Mobility in Soil	No Data Available
Bioaccumulative Potential	No Data Available
Result of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not
Result of FBT and VI VB assessment	required/not conducted
Other adverse effects	Other adverse effects. An environmental hazard cannot be excluded in the
Other adverse effects	
Ciliana Diamida (7021 00 0)	event of unprofessional handling or disposal. Very toxic to aquatic life
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
Styrene(100-42-5)	
Toxicity to fish - NOEC - fathead minnow	4 mg/l / 96 h
	4 mg/L / 96 h
Toxicity to fish - LC50 - fathead minnow	32 mg/L / 96 h
Toxicity to fish - LOEC - fathead minnow	7.6 mg/L / 96 h
Toxicity to daphnia and other aquatic	4.7 mg/L / 48 h
invertebrates - EC50 - water flea	
Toxicity to algae - IC50 - green algae	1.4 mg/L / 72 h
Persistence and degradability - aerobic	60% - readily biodegradable - 28 d
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	Not available Not available/not required
Other adverse effects	An environmental hazard cannot be excluded in the event of
Other adverse effects	
Til. : D: :1 (12162 67 7)	unprofessional handling or disposal. Toxic to aquatic life.
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	
(water flea)	



Toxicity to daphnia and other aquatic invertebrates - EC0 - 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: 8/28/2018 **REFERENCE:** GR309-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#
Titanium Dioxide	13463-67-7
Hydrated magnesium silicate	14807-96-6
1,3,5-Triglycidyl Isocyanurate	2451-62-9
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.



RDINAL SAFETY DATA SHEET

ISSUED: 8/28/2018 **REFERENCE:** GR309-T091

STATE REGULATIONS CALIFORNIA PROPOSITION 65

This product contains:	Chemical CAS#
*Titanium Dioxide	13463-67-7
*Hydrated magnesium silicate	14807-96-6
*Carbon Black	1333-86-4
*Crystalline Silica	14808-60-7
*Styrene	100-42-5

Proposition 65 Key

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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.

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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>.

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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
Titanium Dioxide	13463-67-7
Hydrated magnesium silicate	14807-96-6
Silicon Dioxide	7631-86-9
Carbon Black	1333-86-4
Amorphous Silica	112926-00-8
E-Caprolactam	105-60-2
Crystalline Silica	14808-60-7
Iron Oxide	1309-37-1
Prop-2-enoic acid	79-10-7
Butyl Acrylate	141-32-2
Styrene	100-42-5

Pennsylvania Right to Know

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Titanium Dioxide	13463-67-7
Hydrated magnesium silicate	14807-96-6
Silicon Dioxide	7631-86-9
Carbon Black	1333-86-4
Amorphous Silica	112926-00-8
E-Caprolactam	105-60-2
Crystalline Silica	14808-60-7
Iron Oxide	1309-37-1
Prop-2-enoic acid	79-10-7
Butyl Acrylate	141-32-2
Styrene	100-42-5



New Jersey Right to Know

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Titanium Dioxide	13463-67-7
Hydrated magnesium silicate	14807-96-6
1,3,5-Triglycidyl Isocyanurate	2451-62-9
Silicon Dioxide	7631-86-9
Carbon Black	1333-86-4
Amorphous Silica	112926-00-8
E-Caprolactam	105-60-2
Crystalline Silica	14808-60-7
Iron Oxide	1309-37-1
Prop-2-enoic acid	79-10-7
Butyl Acrylate	141-32-2
Styrene	100-42-5



RDINAL SAFETY DATA SHEET

ISSUED: 8/28/2018 REFERENCE: GR309-T091

16. OTHER INFORMATION

Other Product Information:

% Volatile by Volume : 0.00 % Volatile by Weight : 0.02 % Solids by volume : 100.00 % Solids by Weight : 99.98

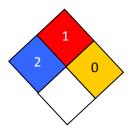
VOC CONTENT:

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



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