SAFETY DATA SHEET



DATE ISSUED: 8/8/2018
SDS REF. No: 3760-SERIES

3760-SERIES WATERBORNE PRIMER

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3760-SERIES WATERBORNE PRIMER

PRODUCT CODE: 3760-SERIES

PRODUCT USE: Industrial Waterborne Primer

MANUFACTURER

Cardinal Industrial Finishes

1329 Potrero Ave

S. El Monte, CA, 626 444-9274

24 HR. EMERGENCY TELEPHONE NUMBER CHEMTREC (US Transportation): (800)424-9300 **CHEMTREC (International** : 1(202)483-7616

Transportation)
WEB: WWW.CARDINALPAINT.COM

2. HAZARDS IDENTIFICATION

PICTOGRAMS



SIGNAL WORD: WARNING

HAZARD STATEMENTS:

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H372 Causes damage to organs through prolonged or repeated use.

PRECAUTIONARY STATEMENTS:

P264 Wash thoroughly after handling.

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

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P403 Store in a well-ventilated place.

P501 Dispose of in accordance with Local, Regional, State, Federal, and International Regulations.

R40 Limited evidence of a carcinogenic effect.

S36 Wear suitable protective clothing.

S37 Wear suitable gloves.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
Talc	15% - 20%	14807-96-6
Ethylene glycol mono butyl ether	1% - 5%	111-76-2

Diethylene glycol n-butyl ether	1% - 5%	112-34-5

The follow substances may be present in varying quantities depending on color.

Titanium Dioxide	0% - 60%	13463-67-7
Carbon Black	0% - 40%	1333-86-4

4. FIRST AID MEASURES

Description of first aid measures.

EYES CONTACT: EYE CONTACT: Moderate irritation, tearing or blurred vision.

SKIN CONTACT: SKIN CONTACT: Moderate irritation possible from prolonged exposure; defatting and dermatitis.

INGESTION: INGESTION: Can cause gastrointestinal irritation, headache, dizziness, nausea and weakness.

INHALATION: INHALATION: May cause nasal irritation, headache, dizziness, nausea, weakness or vomiting. Loss of consciousness.

Most important symptoms and effects, both acute and delayed. Symptoms/injuries: Eye irritation

Symptoms/injuries after inhalation: May cause drowsiness or dizziness.

Symptoms/injuries after eye contact: Cause serious eye irritation.

Symptoms/injuries after ingestion: Ingestion may cause nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed.

If medical advise is needed, have product container or label on hand.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, water fog.

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 : Fire hazard: Highly flammable/liquid or vapor.

Explosive hazard: May form flammable/explosive vapor-air mixture.

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:

Equip cleanup crew with proper protection. Avoid breathing fume, vapors.

ENVIRONMENTAL PRECAUTIONS:

Prevent entry to sewers and public waters.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP:

Collect damaged aerosols and use absorbent and/or inert material, then place in suitable container.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Additional hazards when processed: Handle empty containers with care because residual vapors are flammable.

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 to prevent formation of vapor. No smoking. Use only non-sparking tools. Use outdoors or in a well ventilated area. Avoid breathing fume, vapors. Hygiene measures: Wash Skin thoroughly after handling.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES: Storage conditions: Store in a dry, cool and well-ventilated place away from: Heat sources. Direct sunlight.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Source of ignition. Direct sunlight. Heat Sources.

8. EXPOSURE CONTROLS\PERSONAL PROTECTION

Acrylic Acid(79-10-7)		
USA ACGIH	ACGIH (TLV) TWA	2 ppm
USA NIOSH	NIOSH (REL) TWA	2 ppm, 6 mg/m3
Acrylonitrile(107-13-1)		
USA ACGIH	ACGIH (TLV) TWA	2 ppm
USA NIOSH	NIOSH (REL) C	10 ppm
USA NIOSH	NIOSH (REL) TWA	1 ppm
Aliphatic Solvent(64742-47-8)	1110011 (1122) 11111	_ pp
USA ACGIH	ACGIH (TLV) TWA	200 mg/m3
USA NIOSH	NIOSH REL (ST)	10 mg/m3
USA NIOSH	NIOSH REL (TWA)	5 mg/m3
USA OSHA	OSHA OEL (TLV) TWA Table Z-1	500 ppm, 2,000 mg/m3
USA OSHA	OSHA OEL Table Z-1	5 mg/m3
Aluminum Hydroxide(21645-51-2)		
USA ACGIH	ACGIH (TLV) TWA	10 mg/m3 (Total dust), 3 mg/m3 (Respirable fraction)
USA OSHA	OSHA (PEL) TWA	15 mg/m3 (Tptal dust), 5 mg/m3
	` ′	(Respirable fraction)
Barium Sulfate(7727-43-7)	•	
USA ACGIH	ACGIH (TLV)TWA	10 mg/m3
USA NIOSH	NIOSH (REL) TWA	5 mg/m3
USA OSHA	OSHA (OEL) TWA	15 mg/m3
Carbon Black(1333-86-4)	OSTIA (OLL) TWA	13 mg/ms
	ACCIUTIV/ (2)	1200000
USA ACGIH	ACGIH TLV (mg/m3)	3.0 mg/m3
USA OSHA	OSHA PEL (mg/m3)	3.5 mg/m3
Diethylene glycol n-butyl ether(112-34-		
USA ACGIH	ACGIH TLV (TWA)	10 ppm
Ethylene glycol mono butyl ether(111-7	6-2)	
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA NIOSH	NIOSH REL (ppm)	5 ppm
USA OSHA	OSHA PO TWA (ppm)	25 ppm
USA OSHA	OSHA TABLE Z-1 TWA (mg/m3)	50 ppm, 240 mg/m3
Ethylene Glycol(107-21-1)	, , ,	
USA ACGIH	ACGIH (C)	100 mg/m3
USA ACGIH	ACGIH (C) (Aerosol only)	100 mg/m3
	OSHA PO (TLV-C)	50 ppm, 125 mg/m3
USA OSHA	OSTIA FO (TEV-C)	50 ppiii, 125 iiig/iii5
Formaldehyde(50-00-0)	ACCILI (TIA)	0.2 mm
USA ACGIH	ACGIH (TLV)	0.3 ppm
USA OSHA	OSHA (PEL) STEL	2 ppm
USA OSHA	OSHA (PEL) STEL	2 ppm STEL 15 min
USA OSHA	OSHA (PEL) TWA	0.75 ppm
Isobutyl Alcohol(78-83-1)		
USA ACGIH	ACGIH TWA	50 ppm
USA OSHA	OSHA PEL	100 ppm, 300 mg/m3
Methyl Alcohol(67-56-1)		<u> </u>
USA ACGIH	ACGIH (TLV) STEL	250 ppm
USA ACGIH	ACGIH (TLV) TWA	200 ppm
USA NIOSH	NIOSH (REL) ST	250 ppm, 325 mg/m3
USA NIOSH	NIOSH (REL) TWA	200 ppm, 260 mg/m3
USA OSHA	OSHA (OEL) TWA (Table Z-1)	
		200 PPM, 260 mg/m3
	OSTIA (OLL) TWA (Table 2-1)	
Methyl Methacrylate(80-62-6)		1.00
USA ACGIH	ACGIH (TLV) STEL	100 ppm
		100 ppm 50 ppm 100 ppm, 410 mg/m3

USA OSHA	OSHA TWA	100 ppm, 410 mg/m3	
Red Iron Oxide(1309-37-1)			
Appropriate Engineering Controls	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilations or other engineering controls to keep worker exposure to airborne		
	containments below any recommended or statutory limits.		

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: If TLV of the product or any component is exceeded, a NIOSH approved Air Supplied Respirator is advised in absence of environmental control. OSHA Regulations also permit other NIOSH Respirators under specified conditions. (See your Safety Equipment Supplier) Engineering or administrative controls should be implemented to reduce exposure.

HAND PROTECTION REMARKS: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

EYES PROTECTION: Do not get in eyes. Solvent resistant safety eyewear with splash guards or side shields is recommended.

SKIN AND BODY PROTECTION: Prevent repeated or prolonged skin contact with GB Protective Handcream, wear impervious clothing and chemical resistant boots.

WORK HYGIENIC PRACTICES: Remove and wash soiled clothing before reuse. Wash hands with soap and water after handling paint, before eating, using the rest room or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	l :	Liquid
Color	:	Various colors depending on the pigmentation.
Odor	:	Characteristic. Sweet. Mint like.
Odor threshold	:	No data available.
Ph	:	N/A - See Technical Data Sheet
Evaporation rate	:	Slower Than Ether
Melting point	:	-94.7 C (-138.46 F)
Freezing point	:	No data available.
Boiling point	:	-3.0 deg F TO 446.0 deg F
Flash point	:	Above 212 deg F
Lower explosion limit	:	.85
Upper explosion limit	:	24.6
Vapor pressure	:	185 mm Hg
Vapor density	:	Heavier than air
Relative density	:	No data available.
Density	:	11.0609
Solubility	:	No data available.
Partion coefficient: n-	:	No data available.
octanol/water		
Autoignition temperature	:	No data available.
Decomposition temperature	:	No data available.

10. STABILITY AND REACTIVITY

REACTIVITY: No dangerous reaction known under conditions of normal use.

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Extremely high temperatures, poor ventilation and excessive aging.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition may produce carbon dioxide and/or carbon monoxide.

11. TOXICOLOGICAL INFORMATION

2,4,7,9-Tetrametnyl-5-d	lecyne-4,7-diol(126-86-3)
Aspiration hazard	Not available.
Carcinogenicity	Not available.
Irritation/Corrosion	Skin - Primary dermal irritation index (PDII), Eyes - Severe irritant.
LC50 Inhalation - Rat	>20 mg/l, Inhalation, Rat, 1 h.
LC50 Oral - Rat - Acute	>4,6000 mg/kg, Oral - Rat
toxicity	, 3, 3,
LD50 Dermal - Rat	>2,0000 mg/kg, Dermal, Rat
Mutagenicity	Not available.
Reproductive toxicity	Not available.
Sensitization	Route of exposure - skin, Species - mouse, Result - Sensitizing.
Specific target organ toxicity repeated exposure	Not available.
Specific target organ	Not available.
toxicity single exposure	
Acrylic Acid(79-10-7)	
Additional Information	RTECS: AS4375000 burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, 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 Liver - Irregularities - Based on Human Evidence (Mequinol)
Aspiration hazard	No data available.
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: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Acrylic acid) 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.
Dermal	No data available.
Germ cell mutagenicity	Laboratory experiments have shown mutagenic effects.
LC50 Inhalation - Rat	>5,100 mg/m3 - 4 h
LD50 Oral - Mouse	830 mg/kg
Reproductive toxicity	No data available.
Respiratory or skin	Guinea pig Did not cause sensitization on laboratory animals.
sensitization	
Serious eye damage/eye irritation	Eyes - Rabbit Result: Severe eye irritation
Skin	Skin - Rabbit Result: Severe skin irritation - 24 h
corrosion/irritation	Skiii Rabbit Result. Severe skiii iirtaatioii 24 ii
Specific target organ toxicity - repeated	No data available.
exposure Specific target organ toxicity - single exposure	Inhalation - May cause respiratory irritation Respiratory system.
Acrylonitrile(107-13-1)	
Additional Information	RTECS: AT5250000 Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence (Mequinol)
Aspiration hazard	No data available.
Carcinogenicity	Possible human carcinogen IARC: 2B - Group 2B: Possibly carcinogenic to humans (Acrylonitrile) NTP: Reasonably anticipated to be a human carcinogen (Acrylonitrile) OSHA: OSHA specifically regulated carcinogen (Acrylonitrile)
Germ cell mutagenicity	No data available.
LD50 Dermal - Rabbit	226.mg/kg
LD50 Inhalation - Rat	2.09 mg/l - 4 h, Rat male
LD50 Oral - Rat Acute	81 mg/kg
Toxicity Reproductive toxicity	Suspected human reproductive toxicant
Reproductive toxicity	Suspected human reproductive toxicant. Maximization Test CRMT, Cuinea pig Result: Max sausa consitization by skin centact. (OECD Test
Respiratory or skin sensitization	Maximization Test GPMT, Guinea pig Result: May cause sensitization by skin contact. (OECD Tes Guideline 406) Germ cell mutagenicity
Serious eye	
perious eve	Eyes - Rabbit Result: Risk of serious damage to eyes.

I damade/ove irritation	
damage/eye irritation	
Skin	Skin - Rabbit Result: Skin irritation (OECD Test Guideline 404)
corrosion/irritation	
Specific target organ	No data available.
toxicity - repeated	
exposure	
Specific target organ	May cause respiratory irritation.
toxicity - single	Thay cause respiratory irritation.
exposure	
	47.0\
Aliphatic Solvent(64742	
Acute Dermal toxicity	No data available.
Acute Inhalation	No data available.
toxicity	
Acute toxicity	No data available.
Additional Information	RTECS: Not available Prolonged or repeated exposure to skin causes defatting and dermatitis.,
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been
	thoroughly investigated.
Aspiration hazard	No data available.
Aspiration hazard	
Carcinogenicity	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Distillates (petroleum),
	hydrotrated light, kerosene - unspecified) 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.
Germ cell mutagenicity	Reverse mutation assay S. typhimurium Result: negative
Reproductive toxicity	No data available.
Respiratory or skin	Draize Test - Guinea pig Result: Does not cause skin sensitization.
	Draize Test - Guinea pig Result. Does not cause skin sensitization.
sensitization	
Serious eye	Eyes - Rabbit Result: No eye irritation
damage/eye irritation	
Skin	Skin - Rabbit Result: No skin irritation - 4 h
corrosion/irritation	
Specific target organ	No data available.
toxicity - repeated	
exposure	
	No data available.
Specific target organ	NO data available.
toxicity - single	
exposure	
Aluminum Hydroxide(21	
Additional Information	RTECS: BD0940000 Nausea, Vomiting, and Constipation.
Aspiration hazard	No data available.
Causing a san! -!!-:	TADC: No components of this mandret proceed at levels question than an accept to 0.10/ is
i Carcinogenicity	TARC: NO components of this product present at levels dreater than or edual to 0.1% is
Carcinogenicity	IARC: No components of this product present at levels greater than or equal to 0.1% is
Carcinogenicity	identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component
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Dermal Germ cell mutagenicity	identified as 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. No data available.
Dermal Germ cell mutagenicity Inhalation	identified as 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. No data available. Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative No data available.
Dermal Germ cell mutagenicity Inhalation LD50 Oral - Rat -	identified as 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. No data available. Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative
Dermal Germ cell mutagenicity Inhalation LD50 Oral - Rat - female - Acute toxicity	identified as 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. No data available. Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative No data available. >5,000 mg/kg, Oral - Rat - female
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Dermal Germ cell mutagenicity Inhalation LD50 Oral - Rat - female - Acute toxicity Reproductive toxicity Respiratory or skin sensitization	identified as 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. No data available. Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative No data available. >5,000 mg/kg, Oral - Rat - female No data available. Maximization Test (GPMT) - Guinea pig Result- Does not cause skin sensitization.(OECD Test Guideline 406)
Dermal Germ cell mutagenicity Inhalation LD50 Oral - Rat - female - Acute toxicity Reproductive toxicity Respiratory or skin sensitization Serious eye	identified as 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. No data available. Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative No data available. >5,000 mg/kg, Oral - Rat - female No data available. Maximization Test (GPMT) - Guinea pig Result- Does not cause skin sensitization.(OECD Test
Dermal Germ cell mutagenicity Inhalation LD50 Oral - Rat - female - Acute toxicity Reproductive toxicity Respiratory or skin sensitization	identified as 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. No data available. Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative No data available. >5,000 mg/kg, Oral - Rat - female No data available. Maximization Test (GPMT) - Guinea pig Result- Does not cause skin sensitization.(OECD Test Guideline 406)
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Dermal Germ cell mutagenicity Inhalation LD50 Oral - Rat - female - Acute toxicity Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin	identified as 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. No data available. Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative No data available. >5,000 mg/kg, Oral - Rat - female No data available. Maximization Test (GPMT) - Guinea pig Result- Does not cause skin sensitization.(OECD Test Guideline 406) Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)
Dermal Germ cell mutagenicity Inhalation LD50 Oral - Rat - female - Acute toxicity Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation	identified as 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. No data available. Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative No data available. >5,000 mg/kg, Oral - Rat - female No data available. Maximization Test (GPMT) - Guinea pig Result- Does not cause skin sensitization.(OECD Test Guideline 406) Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
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Dermal Germ cell mutagenicity Inhalation LD50 Oral - Rat - female - Acute toxicity Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Amorphous Silica(7631-	identified as 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. No data available. Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative No data available. >5,000 mg/kg, Oral - Rat - female No data available. Maximization Test (GPMT) - Guinea pig Result- Does not cause skin sensitization.(OECD Test Guideline 406) Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404) No data available. No data available.
Dermal Germ cell mutagenicity Inhalation LD50 Oral - Rat - female - Acute toxicity Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Amorphous Silica(7631- Additional toxicological	identified as 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. No data available. Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative No data available. > 5,000 mg/kg, Oral - Rat - female No data available. Maximization Test (GPMT) - Guinea pig Result- Does not cause skin sensitization.(OECD Test Guideline 406) Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404) No data available. No data available. No data available.
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	N
Irritant of skin	Not irritating (rabbit) (OCED 404)
Irritatant of eyes	Not irritating (rabbit) (OCED 405)
LC0 - Inhalative	>140->2000 mg/m3 / 4 h (Rat) (OCED 403)
LD50 - Dermal - Rabbit	
	>5000 mg/kg (Rabbit)
LD50 - Oral - Rat	>5000 mg/kg (Rat) (OECD 401)
Other information -	=> 1340 mg/kg/day
Oral	3. 3. ,
	Not consistanting (quines pis) (OCED 406)
Sensitization	Not sensitizating (guinea pig) (OCED 406)
Barium Sulfate(7727-43	-/)
Chronic Toxicity	No toxic effects known.
Irritation/corrosion	Product not irritating to eyes or skin.
LD50 Oral - Rat - Acute	>15,000 mg/kg
	>13,000 Hig/kg
toxicity	
Sensitsation	No sinsibilisation known.
Carbon Black(1333-86-4	(1)
ACGIH	ACGIH The American Conference of Governmental Industrial Hygienists classifies carbon black as
Acom	
	A4, Not Classifiable as a Human Carcinogen.
Carcinogenicity	GHS- Not a hazardous substance or preparation according to the Global Harmonized System
Classification	(GHS).
Human Epidemiology	Results of epidemiological studies of carbon black production workers suggest that cumulative
Tuman Lpidemiology	
	exposure to carbon black may result in small decrements in lung function, as measured by FEV1.
	A recent U.S. respiratory morbidity study suggested a 27 mL decline in FEV1 from a 1 mg/m3
	(inhalable fraction) exposure over a 40-year period. An older European investigation suggested
	an exposure to 1 mg/m3 (inhalable fraction) of carbon black over a 40-year working-lifetime will
	result in a 48 mL decline in FEV1. In contrast, normal age related decline over a similar period of
	time would be approximately 1200 ml. The relationship between symptoms and exposure to
	carbon black is less clear. In the U.S. study, 9% of the highest exposure group (in contrast to
	5% of the unexposed group) reported symptoms consistent with chronic bronchitis. In the
	European study, methodological limitations in the administration of the questionnaire limit the
	drawing of definitive conclusions about symptoms.
11 F.: 1	
Human Epidemiology -	Since this IARC evaluation of carbon black, Sorahan and Harrington 16) re-analyzed the UK
cont	study data using an alternative exposure hypothesis and found a positive association with
	carbon black exposure in two of the five plants. The same exposure hypothesis was applied by
	Morfeld and McCunney 17-18) to the German cohort; in contrast, they found no association
	between carbon black exposure and lung cancer risk and, thus, no support for the alternative
	exposure hypothesis used by Sorahan and Harrington 16).
Human Epidemiology -	Morfeld and McCunney 19) applied a Bayesian approach to unravel the role of uncontrolled
cont.	confounders and identified smoking and prior exposure to occupational carcinogens received
	before being hired in the carbon black industry as main causes of the observed lung cancer
	excess risk. Overall, as a result of these detailed investigations, no causative link between
	carbon black exposure and cancer risk in humans has been demonstrated. This view is
	consistent with the IARC evaluation in 2006. Several epidemiological and clinical studies of
	workers in the carbon black production industries show no evidence of clinically significant
	adverse health effects due to occupational exposure to carbon black. No dose response
	relationship was observed in workers exposed to carbon black.
Human Enidamistas:	
Human Epidemiology -	This study, however, indicated a link between carbon black and small opacities on chest films,
cont.	with negligible effects on lung function. A study on carbon black production workers in the UK
	10) found an increased risk of lung cancer in two of the five plants studied; however, the
	increase was not related to the dose of carbon black. Thus, the authors did not consider the
	increased risk in lung cancer to be due to carbon black exposure. A German study of carbon
	black workers at one plant 11-14) found a similar increase in lung cancer risk but, like the 2001
	UK study 10), found no association with carbon black exposure. In contrast, a large US study
	15) of 18 plants showed a reduction in lung cancer risk in carbon black production workers.
	Based upon these studies, the February 2006 Working Group at IARC concluded that the human
	evidence for carcinogenicity was inadequate 1) .l
TADC	IARC In 1995 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity
IARC	
	of carbon black." Based on rat inhalation studies IARC concluded that there is, "sufficient
	evidence in experimental animals for the carcinogenicity of carbon black," IARC's overall
	evaluation was that, "Carbon black is possibly carcinogenic to humans (Group 2B)". This
	conclusion was based on IARC's guidelines, which require such a classification if one species
	exhibits carcinogenicity in two or more studies. IARC performed another review in 2006, and
	again classified carbon black as possibly carcinogenic to humans (Group 2B). In its 1987 review
	IARC concluded, "There is sufficient evidence in experimental animals for the carcinogenicity of
	carbon black extracts." Carbon black extracts are classified as, possibly carcinogenic to humans
	(Group 2B).
LD50 (Pa+)	>8000 mg/kg
LD50 (Rat)	
Mutagenic Effects and	In an experimental investigation, mutational changes in the hprt gene were reported in alveolar
Germ Cell Mutagenicity	epithelial cells in the rat following inhalation exposure to carbon black. This observation is
	believed to be rat specific and a consequence of "lung overload" which led to chronic
	inflammation and release of genotoxic oxygen species. This mechanism is considered to be a
L	1 and release of generalized oxygen opened time internation to considered to be d

	secondary genotoxic effect and thus, carbon black itself would not be considered to be mutagenic. Carbon black is not suitable to be tested in bacterial (Ames test) and other in vitro systems because of its insolubility in aqueous solutions. When tested, however, results for carbon black showed no mutagenic effects. Organic solvent extracts of carbon black can, however, contain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the bioavailability of these PAHs showed that PAHs are very tightly bound to carbon black and not bioavailable.
NIOSH	NIOSH The U.S. National Institute of Occupational Safety and Health (NIOSH) 1978 criteria document on carbon black recommends that only carbon blacks with PAH contaminant levels greater than 0.1% require the measurement of PAHs in air. As some PAHs are possible human carcinogens, NIOSH recommends an exposure limit of 0.1 mg/m3 for PAHs in air, measured as the cyclohexane-extractable fraction.
NTP	NTP Carbon black is not designated a carcinogen by the U.S. National Toxicology Program (NTP), the U.S. Occupational Safety and Health Administration (OSHA) or the European Union (EU).
Reproductive and Teratogenic Effects	No experimental studies on effects of carbon black on fertility and reproduction have been located. However, based on toxicokinetic data, carbon black is deposited in the lungs and based on its specific physicochemical properties (insolubility, low absorption potential), it is not likely to distribute in the body to reach reproductive organs, embryo and/or foetus under in vivo conditions. Therefore, no adverse effects of carbon black to fertility/reproduction or to foetal development are expected. No effects have been reported in long-term animal studies.
Sensitization	No animal data is available. No cases in humans have been reported.
STOT- repeated exposure	Therefore, no STOT, Repeated exposure classification is made.
STOT- single exposure	Inhalation studies with the rat showed lung effects (see Section 11.2 and 11.3), these effects are believed to be the effects of "lung overload" 1 and these effects are believed to be specific to the species. In addition, the European CLP Regulation states that no classification is necessary if the mechanism is not relevant to humans. 4) Also, the CLP Guidance on classification and labeling states that the "lung overload" mechanism is not relevant to humans. 4) Therefore, no STOT, Repeated Exposure classification is made
Diethylene glycol n-butyl	
Additional Information	Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - 250 mg/kg RTECS: KJ9100000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence
Aspiration hazard Carcinogenicity	No data available. Carcinogenicity 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. 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.
Inhalation	The LC50 has not be determined.
LD Dermal - Rabbit	2,764 mg/m3
LD50 Oral - Mouse- male	2,410 mg/m3
LD50 Oral - Rat - male	3,305 mg/kg
Repeated Dose Toxicity Reproductive toxicity	In animals, effects have been reported on the following organs: Blood. kidney. Liver In animals studies, did not interfere with reproduction. However, body weights of newborn animals were decreased.
Respiratory or skin sensitization	Maximization Test GPMT,Guinea pig Result: Does not cause skin sensitization. (OECD Test Guideline 406)
Serious eye damage/eye irritation	May cause severe eye irritation. May cause slight corneal injury.
Skin corrosion/irritation	Skin - Rabbit Result: Mild skin irritation - 1 h (OECD Test Guideline 404)
Specific target organ toxicity - repeated exposure	No data available.
Specific target organ toxicity - single exposure	No data available.
Ethylene glycol mono but	
Aspiration toxicity	Remarks: No data available.
Carcinogenicity	Species mouse, Application Route: Inhalation, Exposure time 2 yr, Activity duration: 6 h, Frequency of Treatment: 5 days/week, NAOEL: 125 ppm Result: Limited evidence of
Further information	carcinogenic effects with no relevance to humans., Carcinogenicity-Assement: Not evidence of carcinogenicity in animal studies Product Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea

Germ cell mutagenicity	Genotoxicity in vitro: Test Type: Mammalian cell gene mutation assay; Test species: Chinese hamster (CHO), Metabolic activation: with and without metabolic activation. Result: negative., Genotoxicity in vivo: Test Type: In vivo micronucleus test., Test species:: mouse (male), application Route: Intraperitoneal, Result: negative., Germ cell mutagenicity Assessment: Tests on bacterial or mammalian did not show mutagenic effects.
LC50 (rat) inhalation	Acute inhalation toxicity: 500 ppm, Exposure time: 4 h; Assessment: the component/mixture is moderately toxic after short term inhalation.
LC50 (rat) Oral	Acute toxicity estimate: 500 mg/kg; Method: Expert judgment.; Assessment: the component/mixture is moderately toxic after single ingestion.
LD50 (rat) dermal	Acute toxicity estimate: 1,1000 mg/kg; Method: Expert judgment; Assessment: the component/mixture is moderately toxic after single contact with skin.
Repeated dose toxicity	Species: rat NOAEL: 30, Application Route: Inhalation Exposure time: 14 wk Number of exposures: 6 h/d, 5 d/wk.
Reproductive toxicity	Effects on fertility: Test Type: Two-generation study Species: mouse Application Route: oral Fertility: NOAEL: 720 mg/kg body weight Symptoms: Reduced fertility Result: Reduced fertility at maternally toxic doses Effects on fetal development: Test Type: Embryo-fetal development Species: rat Application Route: Inhalation Duration of Single Treatment: 10 d Frequency of Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments
Respiratory or skin sensitsation	Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals.
Serious eye damage/ eye irritation	Species rabbit, Exposure time 24 h, Result: Irritating to eyes.
Skin	Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h,
corrosion/irritation STOT - repeated	Result: Mild skin irritation No data available.
exposure	No data available.
STOT - single exposure	No data available.
Ethylene Glycol(107-21-	
Aspiration hazard	No aspiration toxicity classification.
Carcinogenicity	Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity - Assessment: Not classified as a human carcinogen.
Further information	Remarks: No data available.
Germ cell mutagenicity	Tetst Type: Ames test, Metabolic activation: with and without activation, Method OECD Test Guideline 471, Result: negative, GLP: yes.
LC50 Inhalation Toxicity - (Rat)	>2.5 mg/l, Exposure time: 6 h, Test atmosphere: dust/mist. Assessment: The substance or mixture has no acute inhalation toxicity.
LD50 Dermal Toxicity (Mouse)	>3,500 mg/kg, Assessment: The substance or mixture has no acute dermal toxicity.
LD50 Oral - Rat Acute toxicity	2,000 mg/kg, Assement: This component/mixture is moderately toxic after single ingestion.
Reproductive toxicity	Results: No reproductive effects.
Respiratory or skin sensitsation	Test Type: Maximization Test (GPMT), Species: guinea pig, Result: Did not cause sensitsation on laboratory animals.
Serious eye damage/eye irritation	Species: rabbit, Result: No eye irritation, Exposure time 24 h, Method: In vivo.
Skin corrosion/irritation	Skin - Rabbit Result, Exposure time: 20 h, Method: In vivo, Result: No skin irritation.
Specific target organ toxicity - repeated exposure	Oral - May cause damage to organs through prolonged or repeated exposure Kidney
Specific target organ toxicity - single	No data available.
exposure	
Formaldehyde(50-00-0) Genotoxicity	Formaldehyde was found to be weakly mutagenic in a number of in vitro genotoxicity tests and
· 	positive in certain in vivo screening tests for mutagenicity. Formaldehyde did not cause birth defects in rats inhaling concentrations up to 10 ppm. However, a study using higher levels did show a slight but statistically significant reduction in male fetal body weight.
LD50 Dermal - Rabbit	270 mg/kg 0.31-0.59 mg/l (4 h) (Dust/ Mist)
LD50 Inhalation - Rat LD50 Oral - Rat - Acute toxicity	0.31-0.59 mg/l (4 h) (Dust/ Mist) 100 mg/kg, Rat
Other Information	Lifetime inhalation of formaldehyde vapor at concentrations above 5 ppm for 6 hours per day, caused nasal tumors in laboratory animals. The International Agency for Research on Cancer (IARC) has classified formaldehyde as a Group 1 (known) human carcinogen based on
	epidemiological evidence linking formaldehyde exposure to the occurrence of nasopharyngeal

	cancer, a rare type of cancer. IARC also found limited evidence of cancer of the nasal cavity and paranasal sinuses and insufficient evidence for an association between formaldehyde and leukemia. Inhalation caused liver and kidney damage in laboratory animal tests.
Sensitization	Formaldehyde has been reported to cause pulmonary hypersensitivity in some individuals who were exposed to conceratrations know to cause irritation, however, no pulmonary sensitization has been demonstrated in laboratory animal studies.
Skin/Eye irritation	Can cause severe eye and moderate skin irritation.
Specific Target Organ	Repeated skin exposure to solutions of 2% or more formaldehyde has caused skin allergic
Toxicity - Repeated exposure	reactions.
Specific Target Organ	No data.
Toxicity - Single	
Isobutyl Alcohol(78-83-1	
Carcinogenicity Data:	The ingredient(s) of this product is (are) not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.
LC50 Inhalation - Rat	8000 ppm; (4 h)
LD50 Dermal - Rabbit	3400 mg/kg
LD50 Oral - Rat (Acute Toxicity)	2460 mg/kg
Mutagenicity Data:	No adverse mutagenicity effects are anticipated.
Reproductive Data:	No adverse reproductive effects are anticipated.
Respiratory / Skin Sensitization Data:	None known.
Synergistic Materials:	Alcohols may interact synergistically with chlorinated solvents (example - carbon tetrachloride, chloroform, bromotrichloromethane), dithiocarbamates (example - disulfiram), dimethylnitrosamine and thioacetamide.
Tetragenicity Data:	No adverse Tetragenicity effects are anticipated.
Magnesite(546-93-0)	
Information regarding	No data available.
toxicological effects	
Methyl Alcohol(67-56-1)	
Additional Information	RTECS: PC1400000 Methyl alcohol may be fatal or cause blindness if swallowed. Effects due to ingestion may include:, Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed., Damage of the:, Liver, Kidney Central nervous system - Breathing difficulties - Based on Human Evidence.
Aspiration hazard	No aspiration toxicity classification IARC: No component of this product present at levels greater than or equal to 0.1% is identified
Carcinogenicity	as 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 Damage to fetus not classifiable Fertility classification not possible from current data. Specific target organ toxicity - single exposure Causes damage to organs.
Germ cell mutagenicity	Ames test S. typhimurium Result: negative in vitro assay fibroblast Result: negative Mutation in mammalian somatic cells. Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Mouse - male and female Result: negative.
LC50 Inhalation - Rat	5 mg/l
LD50 Dermal - Rabbit	300 mg/kg
LD50 Oral - Rat Acute Toxicity	100 mg/kg
Reproductive toxicity	Damage to fetus not classifiable Fertility classification not possible from current data.
Respiratory or skin sensitization	Maximization Test (GPMT) - Guinea pig Does not cause skin sensitization. (OECD Test Guideline 406)
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation
Skin	Skin - Rabbit Result: No skin irritation
corrosion/irritation	The substance on additional to make the 100 days of 200 days of 20
Specific target organ toxicity - repeated	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Specific target organ toxicity - single	Causes damage to organs.
exposure	
Methyl Methacrylate(80-	
Additional Information	RTECS: OZ5075000 Central nervous system depression, Drowsiness, Irritability, Dizziness, Ataxia., narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Liver - Irregularities - Based on Human

	Evidence Liver - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on	
	Human Evidence (Mequinol)	
Aspiration hazard	No data available.	
available Respiratory	No data available.	
or skin sensitization		
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: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Methyl Methacrylate) 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.	
Germ cell mutagenicity	No data available.	
LC50 Inhalation - Rat	78,000 mg/m3, (4 h)	
LD50 Dermal - Rabbit	> 5,000 mg/kg Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis.	
LD50 Oral - Rat - Acute toxicity	, 3, 3,	
Reproductive toxicity	No data available.	
Serious eye	No data available.	
damage/eye irritation	Nie deke enedelie	
Skin corrosion/irritation	No data available.	
Specific target organ	No data available.	
toxicity - repeated		
exposure		
Specific target organ	May cause respiratory irritation.	
toxicity - single exposure		
Red Iron Oxide(1309-37	 -1	
Acute Toxicity	No Data Available	
Estimates	No Data Available	
Carcinogenicity	No Data Available	
Chronic Toxicity	No Data Available	
Irritation/Corrosion	No Data Available	
LD50 Oral Bayferrox 130M - Rat	5000 mg/kg - Rat	
Mutagenicity	No Data Available	
Product/ingredient name	No Data Available	
Sensitization	No Data Available	
Specific Target Organ	No Data Available	
Toxicity (Repeated Exposure)		
Specific Target Organ	No Data Available	
Toxicity (Single Exposure)		
Styrene(100-42-5)		
Irritation / corrosion -	Species: Rabbit; Result: non-irritant; Method: BASF - Test	
Eye	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Irritation / corrosion - Sensitization	Species: Guinea pig; Result: non-sensitization; Method: OECD Guideline 406.	
Irritation / corrosion - Skin	Species: Rabbit; Result: non-irritant; Method: BASF - Test	
LC50 Dermal - Rat	Not determined	
LC50 Inhalation - Rat	Exposure time 4 h ; not determined	
LD50 Oral - Rat	>5,000 mg/kg	
Talc(14807-96-6)	Tab. 1.1. 2.11	
Acute toxicity - Dermal	No data available.	
Acute toxicity - Inhalation	No data available.	
Additional Information	RTECS: WW2710000 Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stages, loss of appetite, pleuritic pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction of lung tissue. Crystalline silica is classified as group 1 "known to be carcinogenic to humans" by IARC and "sufficient evidence" of carcinogenicity by the NTP. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Liver - Irregularities - Based on Human Evidence	
	Stomach - Irregularities - Based on Human Evidence Liver - Irregularities - Based on Human	

	Evidence (Quartz).
Aspiration hazard	No data available.
Carcinogenicity	Carcinogenicity - Rat - Inhalation Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. IARC: 1 - Group 1: Carcinogenic to humans (Quartz) IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrous magnesium silicate) 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrous magnesium silicate) 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.
Germ cell mutagenicity	No data available.
Reproductive toxicity	No data available.
Respiratory or skin sensitization	No data available.
Serious eye damage/eye irritation	No data available.
Skin corrosion/irritation	Skin - Human Result: Mild skin irritation - 3 h
Specific target organ toxicity - repeated exposure	No data available.
Specific target organ toxicity - single exposure	No data available.
Titanium Dioxide(13463	-67-7)
Carcinogenicity	In lifetime inhalation studies rats were exposed for 2 years to respectively 10, 50, 250 mg/m3 of respirable Ti02.
Dermal ALD (rabbit)	>10000 mg/m3
Eye irritation	slight irritation
Inhalation 4 h ALC	>6.82 mg/l
ORAL ALD (rat)	>2400 mg/kg
Sensitsation	Did not cause sensitsation on laboratory animals.
Skin irritation	slight irritation

12. ECOLOGICAL INFORMATION

2,4,7,9-Tetrametnyl-5-d	ecyne-4,7-diol(126-86-3)	
Bioaccumulative	LogP ow 208, BCF - <24, Potential low.	
potential		
EC50 - Daphnia -	91 mg/l - 48 h, Daphnia	
Toxicity to Daphnia		
and other aquatic		
interverbartes		
EC50 -	15 mg/l - 72 h., Pseudokirchneriella subcapitata	
Pseudokirchneriella -		
Toxicity to algae		
LC50 - Pimephales	36 mg/l - 96 h, Pimephales promelas	
promelas - Toxicity to		
fish		
Mobility in Soil	Not available.	
Persistence and	5% - 29 days, OECD 301B Ready, Biodegrability - CO2 Evolution Test.	
degrability		
Acrylic Acid(79-10-7)		
Bioaccumulative	No data available.	
potential		
EC50 Toxicity to algae	0.04 mg/l - 96 h, Desmodesmus subspicatus (green algae)	
- Desmodesmus		
subspicatus		
EC50 Toxicity to	95 mg/l - 48 h, Daphnia magna (Water flea)	
daphnia and other		
aquatic invertebrates -		
Daphnia magna		
LC50 Toxicity to fish -	27 mg/l - 96 h, Oncorhynchus mykiss (rainbow trout)	
Oncorhynchus mykiss		
Mobility in soil	No data available.	
Other adverse effects	Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.	
Persistence and degradability	Biodegradability Biotic/Aerobic - Exposure time 28 d Result: 100 % - Readily biodegradable	

Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted	
Acrylonitrile(107-13-1)	B	
Bioaccumulative potential	Bioaccumulation Lepomis macrochirus - 14 d - 9.94 μg/l Bioconcentration factor (BCF): 48	
EC50 Toxicity to	7.4 - 10.0 mg/l - 48 h, Daphnia magna (Water flea)	
daphnia and other	7.4 10.0 mg/r 40 m, Bapinia magna (water nea)	
aquatic invertebrates -		
Daphnia magna	N. J. W. W. H.	
Mobility in soil	No data available.	
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
	Toxic to aquatic life with long lasting effects.	
Persistence and degradability	Biodegradability Biotic/Aerobic - Exposure time 28 d	
	DDT (vDvD generally bet available as showing effect, approximation of the production	
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted	
vPvB assessment	47.0)	
Aliphatic Solvent(64742-		
Bioaccumulative	No data available.	
potential		
EC50 (Daphnia Magna)	1.4 mg/l - 48 h, - Daphnia magna (Water flea), (OECD Test Guideline 202)	
Toxicity to daphnia and		
other aquatic		
invertebrates		
LC50 (Rainbow trout)	2.9 mg/l - 96 h, Oncorhynchus mykiss (rainbow trout)	
Toxicity to fish	. 5,,, (, 5, 1, 5,	
Mobility in soil	No data available.	
Other adverse effects		
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
	Toxic to aquatic life. No data available.	
Persistence and	No data available.	
degradability		
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.	
vPvB assessment		
Aluminum Hydroxide(21	645-51-2)	
Bioaccumulative	Inert material.	
	There material.	
i notential		
potential	>10,000 mg/l Danhnia magna (Water floa) (OECD Test Guideline 202)	
EC50 - Daphnia -	>10,000 mg/l, Daphnia magna (Water flea) (OECD Test Guideline 202)	
EC50 - Daphnia - Toxicity to daphnia and	>10,000 mg/l, Daphnia magna (Water flea) (OECD Test Guideline 202)	
EC50 - Daphnia - Toxicity to daphnia and other aquatic	>10,000 mg/l, Daphnia magna (Water flea) (OECD Test Guideline 202)	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates		
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity	>10,000 mg/l, Daphnia magna (Water flea) (OECD Test Guideline 202) >10,000 mg/l, Fish	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish	>10,000 mg/l, Fish	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil	>10,000 mg/l, Fish Inert material.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish	>10,000 mg/l, Fish	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201)	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201)	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201)	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631-	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9)	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631-	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9)	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential EC50 - Algae	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202)	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203)	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and degrability	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and degrability Barium Sulfate(7727-43	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631-Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and degrability Barium Sulfate(7727-43) Bioaccumulative	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631-Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and degrability Barium Sulfate(7727-43) Bioaccumulative potential	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. -7) The product is practically insoluble in water and not biodegradable.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631-Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and degrability Barium Sulfate(7727-43 Bioaccumulative potential	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. -7) The product is practically insoluble in water and not biodegradable. No information.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631-Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and degrability Barium Sulfate(7727-43 Bioaccumulative potential Mobility in soil Other adverse effects	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. 7) The product is practically insoluble in water and not biodegradable. No information.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631-Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and degrability Barium Sulfate(7727-43 Bioaccumulative potential	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. -7) The product is practically insoluble in water and not biodegradable. No information.	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631-Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and degrability Barium Sulfate(7727-43 Bioaccumulative potential Mobility in soil Other adverse effects	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. 7) The product is practically insoluble in water and not biodegradable. No information.	
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EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and degrability Barium Sulfate(7727-43 Bioaccumulative potential Mobility in soil Other adverse effects Persistence and degradability Results of PBT and	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. -7) The product is practically insoluble in water and not biodegradable. No information. No information. The methods for determining biodegradability are not applicable to inorganic substances. According to Annex XIII of regulation (EC) 1907/2006 a PBT and VPvB shall not be conducted for	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631-Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and degrability Barium Sulfate(7727-43 Bioaccumulative potential Mobility in soil Other adverse effects Persistence and degradability	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >10000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process7) The product is practically insoluble in water and not biodegradable. No information. No information. The methods for determining biodegradability are not applicable to inorganic substances. According to Annex XIII of regulation (EC) 1907/2006 a PBT and VPvB shall not be conducted for inorganic substances. Barium sulfate is an inorganic substance, thus a PBT abs vPVb assessment	
EC50 - Daphnia - Toxicity to daphnia and other aquatic invertebrates EC50 - Fish - Toxicity ro fish Mobility in soil NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna LCO - Zebra fish Mobility in soil Persistence and degrability Barium Sulfate(7727-43 Bioaccumulative potential Mobility in soil Other adverse effects Persistence and degradability Results of PBT and	>10,000 mg/l, Fish Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further revelent information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202) 10000 mg/l (zebra fish) (96 h) (static) (OCED203) No further revelent information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. -7) The product is practically insoluble in water and not biodegradable. No information. No information. The methods for determining biodegradability are not applicable to inorganic substances. According to Annex XIII of regulation (EC) 1907/2006 a PBT and VPvB shall not be conducted for	

toxicity		
Carbon Black(1333-86-4		
Behavior in water treatment plants	Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test)	
Bioaccumulation Potential	Potential bioaccumulation is not expected because of the physicochemical properties of the substance	
EC50 (Scenedesmus subspicatus)	> 10,000 mg/L, OECD (Guideline 201)	
EC50 Daphnia magna (waterflea)	>5600 mg/l (24 h) OECD (Guideline 202)	
Environmental fate	Carbon black is an inert solid, stable and insoluble in water or organic solvents. Its vapour pressure is negligible. Based on these properties it is expected that carbon black will not occur in air or water in relevant amounts. Also potential for distribution via water or air can be dismissed. The deposition in soil or sediments is therefore the most relevant compartment of fate in the environment.	
LC50 Brachydanio reio (zebrafish)	>1000 mg/l (96 h) OECD (Guideline 203)	
NOEC 50 (Scenedesmus subspicatus)	> 10,000 mg/L, OECD (Guideline 201)	
Diethylene glycol n-buty	ether(112-34-5)	
12.6 Other adverse effects	No data available.	
Bioaccumulative potential	Bioconcentration poteitional is low (BCF <100 or Log Pow <3).	
EC50 Daphnia magna - Toxicity to daphnia and other aquatic invertebrates	>100 mg/l - 48 h - Daphnia magna (Water flea), (Directive 67/548/EEC, Annex V, C.2.)	
EC50 Desmodesmus subspicatus - Toxicity of algae	100 mg/l - 96 h - Desmodesmus subspicatus (Scenedesmus subspicatus) - (OECD Test Guideline 201)	
LC50 Lepomis macrochirus - Toxicity to fish	1,300 mg/l - 96 h - Lepomis macrochirus (OECD Test Guideline 203)	
LC50 Pseudomonas putida - Toxicity to bacteria	1170 mg/l - 16 h - Pseudomonas putida	
Mobility in soil	Poteitional for mobility in soil very high (koc between 0 and 50).	
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 91.7 % - Readily biodegradable (OECD Test Guideline 301B)	
Ethylene glycol mono bu		
Bioaccumulative potential	Partition coefficient: n-octanol/water: log Pow: 0.83	
EC50 (Algae)	911 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: no	
EC50 (Daphnia)	1,800 mg/l(48 h; Daphnia magna (Water flea)): Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: no	
LC50 (fish)	1,474 mg/l Pimephales promelas (Fathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no	
Mobility in soil	No data available	
Other adverse effects	No data available	
Persistence and degradability	aerobic Inoculum: Activated sludge, domestic, adaption not specified, Result: Readily biodegradable. Biodegradation: 90.4 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: no	
Product	Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances:	
Ethylene Glycol(107-21-		
LC50 Toxicity to daphnia and other aquatic invertebrates	>100 mg/l (Daphnia magna (water flea)), Exposure time 48 h, Test type: static test, Method: OECD Test Guideline 202, GLP: yes.	
LC50 Toxicity to fish	100 mg/l (Pimephales promelas (fathead minnow)): Exposure time: 96 h, Test Type: static test	
Mobility in soil Other adverse effects	No data available. No data available.	
Persistence and degradability	Aerobic, Inoculum: Activated sludge, domestic, adaption not specified, Biodegradation: 90-100%, Exposure time 10 d, GLP: yes, Remarks: Readily biodegradable.	
Results of PBT and vPvB assessment	PBT/vPvB assessment not available	
Toxicity to Algae	>100 mg/l (Pseudokirchneriella subcapitata (Selenastrum capricornutum)), Exposure time 96 h,	

	Test type: static test.
Toxicity to Bacteria	>10,000 mg/l, Exposure time: 16 h, Test type: Static, Method: DIN 38412.
Formaldehyde(50-00-0)	
EC50 Daphnia - Toxicity to Water Flea	11.3-18 mg/l (48 h), Daphnia magna
LC50 Oncorhynchus - Toxicity to fish	100-136 mg/l, (96 h), Oncorhynchus mykiss
Toxicity to Algae	Not available.
Isobutyl Alcohol(78-83-1	
Chronic Degradability /	No data available. Evaluation: Not readily biodegradable (by OECD criteria).
Persistence; Biological / A biological	Evaluation. Not readily biodegradable (by OLCD Criteria).
Degradation	
EC50 - Aquatic Plants	>100 mg/l (72 h) The product has not been tested. The statement has been derived from properties of the individual components.
EC50 - Daphnia - Acute	>100 mg/l (48 h) The product has not been tested. The statement has been derived from properties of the individual components.
LC50 - Fish - Acute	>100 mg/l (96 h) The product has not been tested. The statement has been derived from properties of the individual components.
Microorganisms	Toxicity to microorganisms: bacteria EC10 (17 h): >750 mg/l. The product has not been tested. The statement has been derived from properties of the individual components.
Magnesite(546-93-0)	
Ecological toxicity	No data available.
Methyl Alcohol(67-56-1)	Discoursed the Commission commission (Co.) 70 1 1 20 00 F. (10)
Bioaccumulative potential	Bioaccumulation Cyprinus carpio (Carp) - 72 d at 20 °C - 5 mg/l Bioconcentration factor (BCF): 1.0
EC50 - Daphnia magna -	> 10,000.00 mg/l - 48 h Toxicity to daphnia and other aquatic invertebrates, Daphnia magna (Water flea)
EC50 - Scenedesmus	22,000.0 mg/l - 96 h, Scenedesmus capricornutum (fresh water algae)
capricornutum - Toxicity to algae	
IC50 Activated sludge -	>1,000 mg/l, Exposure 3 h, Test type Static, Method OECD Test Guideline 209.
Toxicity to bacteria LC50 - Lepomis	15,400.0 mg/l - 96 h, Lepomis macrochirus (Bluegill)
macrochirus - Toxicity to Fish	13,400.0 mg/i - 90 m, Lepomis macrocinius (Bidegiii)
Mobility in soil	Will not adsorb on soil.
Other adverse effects	No data available.
Persistence and degradability	Biodegradability aerobic - Exposure time 5 d Result: 72 % - rapidly biodegradable Biochemical Oxygen Demand (BOD) 600 - 1,120 mg/g Chemical Oxygen Demand (COD) 1,420 mg/g Theoretical oxygen demand 1,500 mg/g
Methyl Methacrylate(80-	
Bioaccumulative	No data available.
potential	170 con/l. Donald livebranic lle sub-serite to (successive to (suc
EC50 Toxicity to algae EC50 Toxicity to	170 mg/l - Pseudokirchneriella subcapitata (green algae) - (96 h). 720 mg/l - Daphnia magna (Water flea).
daphnia and other	/ 20 mg/ i Dupiniu mugnu (water nea).
aquatic invertebrates	
LC50 Toxicity to fish	125.5 - 275.0 mg/l - promelas (fathead minnow) - (96 h).
Mobility in soil	No data available.
Other adverse effects Persistence and	No data available. No data available.
degradability	
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Red Iron Oxide(1309-37	
Bioaccumulative Potential	No Data Available
Conclusion/Summary	No Data Available
Mobility in Soil	No Data Available
Other Adverse Affects	No Data Available
Persistence and Degradability	No Data Available
Toxicity	No Data Available
Styrene(100-42-5)	
Bioaccumulation	At present state of knowledge, no negative ecological effects are expected.
Chronic	No data available regarding toxicity to Daphnis.
Chronic	No data available regarding toxicity to fish.

EC50 (Algae)	(72 h); No data available concerning toxicity for algae.	
EC50 (Daphnia) Acute	(48 h) No data available regarding toxicity to daphnia.	
LC50 Fish (Leuciscus	>100 mg/l (96 h)	
idus) Acute		
Microorganisms	Toxicity to microorganisms: The inhibition of the degradation activity sludge is not anticipated	
	when introduced to biological treatment plants in appropriate low conceratrations.	
Talc(14807-96-6)		
Bioaccumulative	No data available.	
potential		
Mobility in soil	No data available.	
Other adverse effects	No data available.	
Persistence and	No data available.	
degradability		
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted	
vPvB assessment		
Toxicity	No data available.	
Titanium Dioxide(13463	-67-7)	
LC50 fish	Fathead minnow 96 h >1000 mg/l	

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

GENERAL INFORMATION: No data available.

DISPOSAL METHOD: Recycle whenever possible or destroy by liquid incineration in accordance with applicable regulations. Contaminated absorbent should be incinerated or sent to an approved landfill in accordance with Local, State, and Federal Regulations.

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 By D.O.T., 49 CFR

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

EMERGENCY RESPONSE GUIDE (ERG): Not Applicable

IATA (AIR)

DOT (INTERNATIONAL AIR TRANSPORTATION ASSOCIATION)

PROPER SHIPPING NAME: IATA, 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: IMDG, 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: P403 Store in a well-ventilated place. P235 Keep cool.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

All ingredients in Section #3 are TSCA (Toxic Substance Control Act) listed.

OSHA HAZARDS: Flammable liquid, Moderate skin irritant, Moderate eye irritant, Carcinogen.

EPCRA - Emergency

CERCLA REPORTABLE QUANTITY

This product contains:	Chemical CAS#
Ethylene glycol mono butyl ether	111-76-2
Carbon Black	1333-86-4
Ethylene Glycol	107-21-1
Isobutyl Alcohol	78-83-1
Formaldehyde	50-00-0

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

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard, Chronic Health Hazard
SARA 313:

This product contains:	Chemical CAS#
Talc	14807-96-6
Titanium Dioxide	13463-67-7
Ethylene glycol mono butyl ether	111-76-2
Diethylene glycol n-butyl ether	112-34-5
Carbon Black	1333-86-4

CLEAN AIR ACT:

This product contains:	Chemical CAS#
Diethylene glycol n-butyl ether	112-34-5
Ethylene Glycol	107-21-1
Styrene	100-42-5
Formaldehyde	50-00-0
Acrylic Acid	79-10-7
Methyl Alcohol	67-56-1
Methyl Methacrylate	80-62-6

INTERNATIONAL REGULATIONS

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

Acute Tox. Cat. 3; H302 Acute Tox. Cat 4 H312 Skin Irrit. Cat. 2; H315 Eye Irrit. Cat. 2; H319 Acute Tox. Cat. 4 H332 STOT RE Cat. 1; H372

NATIONAL REGULATIONS

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

IARC KEY

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

^ Indicates a chemical listed by IARC as a carcinogen.

STATE REGULATIONS CALIFORNIA PROPOSITION 65

Page 17 of 20	Chemical CAS#
1 450 17 01 20	

*Talc	14807-96-6
*Aliphatic Solvent	64742-47-8
*Formaldehyde	50-00-0
+Methyl Alcohol	67-56-1
*Acrylonitrile	107-13-1
*Styrene	100-42-5

PROPOSTION 65 KEY

* MARNING Cancer - www P65Warnings.ca.gov



MARNING Reproductive Harm – www P65Warnings.ca.gov



+ MARNING Cancer and Reproductive Harm – www P65Warnings.ca.gov

Massachusetts Right to Know

This product contains	Chemical CAS#
Talc	14807-96-6
Ethylene glycol mono butyl ether	111-76-2
Carbon Black	1333-86-4
Ethylene Glycol	107-21-1
Aliphatic Solvent	64742-47-8
Ammonium Benzoate	1863-63-4
Isobutyl Alcohol	78-83-1
Red Iron Oxide	1309-37-1
Formaldehyde	50-00-0
Acrylic Acid	79-10-7
Methyl Alcohol	67-56-1
Barium Sulfate	7727-43-7
Acrylonitrile	107-13-1

Pennsylvania Right to Know

This product contains	Chemical CAS#
Water	7732-18-5
Talc	14807-96-6
Titanium Dioxide	13463-67-7
Ethylene glycol mono butyl ether	111-76-2
Diethylene glycol n-butyl ether	112-34-5
Amorphous Silica	7631-86-9
Aluminum Hydroxide	21645-51-2
1-Phenoxy-2-Propanol	770-35-4
Carbon Black	1333-86-4
Ethylene Glycol	107-21-1
Aliphatic Solvent	64742-47-8
Ammonium Benzoate	1863-63-4
Magnesite	546-93-0
Isobutyl Alcohol	78-83-1
Red Iron Oxide	1309-37-1
2,4,7,9-Tetrametnyl-5-decyne- 4,7-diol	126-86-3

Formaldehyde	50-00-0
Acrylic Acid	79-10-7
Methyl Alcohol	67-56-1
Barium Sulfate	7727-43-7
Acrylonitrile	107-13-1

New Jersey Right to Know

This product contains	Chemical CAS#
Water	7732-18-5
Talc	14807-96-6
Titanium Dioxide	13463-67-7
Ethylene glycol mono butyl ether	111-76-2
Diethylene glycol n-butyl ether	112-34-5
Amorphous Silica	7631-86-9
Aluminum Hydroxide	21645-51-2
1-Phenoxy-2-Propanol	770-35-4
Carbon Black	1333-86-4
Ethylene Glycol	107-21-1
Aliphatic Solvent	64742-47-8
Magnesite	546-93-0
Isobutyl Alcohol	78-83-1
Red Iron Oxide	1309-37-1
2,4,7,9-Tetrametnyl-5-decyne- 4,7-diol	126-86-3
Formaldehyde	50-00-0
Acrylic Acid	79-10-7
Methyl Alcohol	67-56-1
Barium Sulfate	7727-43-7
Acrylonitrile	107-13-1

16. OTHER INFORMATION

Other Product Information

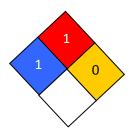
% Volatile by Volume: 59.91 % Volatile by Weight: 44.54 % Solids by volume: 40.09 % Solids by Weight: 55.46 % Exempt by Volume: 51.07 % Exempt by Weight: 38.42

VOC CONTENT: Excluding Exempt VOC: 166 Including Exempt VOC: 81

HMIS RATING

Health :	1*
Flammability :	1
Reactivity :	0
Personal Protection:	F

NFPA CODES



MANUFACTURER DISCLAIMER: The information contained in this Safety Data Sheet is considered to be true and accurate. Cardinal Industrial Finishes 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.