SAFETY DATA SHEET



DATE ISSUED : 10/14/2015 SDS REF. No :

3600 SERIES

3600 SERIES AIR DRY WATERBORNE

PRODUCT AND COMPANY IDENTIFICATION 1.

PRODUCT NAME: 3600 SERIES AIR DRY WATERBORNE

PRODUCT CODE: 3600 SERIES **PRODUCT USE:** Industrial Waterborne Paint

MANUFACTURER

Cardinal Industrial Finishes 1329 Potrero Ave

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

S. El Monte, CA, 626 444-9274

2. HAZARDS IDENTIFICATION

PICTOGRAMS



SIGNAL WORD : WARNING

HAZARD STATEMENTS :

H319 Causes serious eye irritation.

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 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.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
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.

ENVIROMENTAL 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)		
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)
		15 mg/m3 (Total dust) 5 mg/m3
USA USHA	OSHA (FEE) TWA	(Respirable fraction)
Carbon Black(1333-86-4)		
	ACGIH TLV (mg/m3)	3.0 mg/m3
	OSHA PEL (mg/m3)	3.5 mg/m3
Diethylene glycol n-butyl ether(112-34-5		5.5 mg/m5
		10 ppm
Ethylene alvcol mono butyl ether(111-76	5-2)	10 ppm
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA NIOSH	NIOSH REL (nnm)	5 nnm
USA OSHA	OSHA PO TWA (nnm)	25 nnm
USA OSHA	OSHA TABLE 7-1 TWA (mg/m3)	50 ppm 240 mg/m3
Ethylene Glycol($107-21-1$)		55 pp, 2 15 mg,
USA ACGIH	ACGIH (C)	100 mg/m3
USA ACGIH	ACGIH (C) (Aerosol only)	100 mg/m3
USA OSHA	OSHA PO (TLV-C)	50 ppm, 125 mg/m3
Isobutyl Alcohol(78-83-1)		55 pp, 125 mg, ms
	ΑΓΩΙΗ ΤΨΑ	50 ppm
	OSHA PEI	100 ppm 300 mg/m3
Styrene(100-42-5)	OOT AT LE	100 ppm, 000 mg/mo
	ACGIH STEL (npm)	40 ppm
USA ACGIH	ACGIH TWA (npm)	20 ppm
USA OSHA	OSHA TWA (npm)	100 ppm
Titanium Dioxide(13463-67-7)		1 200 ppm
PEL (Permissible Exposure Limit)		15 mg/m3
		10 mg/m3
		10 mg/m3

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	:	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	:	226.0 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	:	10.3507
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

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 Stomach - 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 sensitization	Guinea pig Did not cause sensitization on laboratory animals.
Serious eye damage/eye irritation	Eyes - Rabbit Result: Severe eye irritation
Skin corrosion/irritation	Skin - Rabbit Result: Severe skin irritation - 24 h

Specific target organ toxicity - repeated exposure	No data available.
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 Toxicity	81 mg/kg
Reproductive toxicity	Suspected human reproductive toxicant.
Respiratory or skin sensitization	Maximization Test GPMT, Guinea pig Result: May cause sensitization by skin contact. (OECD Test Guideline 406) Germ cell mutagenicity
Serious eye damage/eye irritation	Eyes - Rabbit Result: Risk of serious damage to eyes.
Skin corrosion/irritation	Skin - Rabbit Result: Skin irritation (OECD Test Guideline 404)
Specific target organ toxicity - repeated exposure	No data available.
Specific target organ toxicity - single	May cause respiratory irritation.
exposure	47.0)
Auphalic Solvent(64742-	
	No data available.
toxicity	
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.
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 sensitization	Draize Test - Guinea pig Result: Does not cause skin sensitization.
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h
Specific target organ toxicity - repeated exposure	No data available.
Specific target organ toxicity - single exposure	No data available.
Aluminum Hydroxide(21	645-51-2)
Additional Information	RTECS: BD0940000 Nausea, Vomiting, and Constipation.
Aspiration hazard	No data available.
Carcinogenicity	IARC: No components 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
Dermal	No data available.
Germ cell mutagenicity	Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative
Inhalation	No data available.
LD50 Oral - Rat - female - Acute toxicity	>5,000 mg/kg, Oral - Rat - female
Reproductive toxicity	No data available.
Respiratory or skin	Maximization Test (GPMT) - Guinea pig Result- Does not cause skin sensitization.(OECD Test
sensitization	Guideline 406)
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)
Skin	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
Specific target organ	No data available.
toxicity - repeated	
Specific target organ	No data available.
toxicity - single	
exposure	96 0)
Additional toxicological	The product is not subject to classification according to internally approved calculation methods
information	for preparations: When used and handled according to internation provided to use not have any harmful effects according to our experience and information provided to us.
Irritant of skin	Not irritating (rabbit) (OCED 404)
Irritatant of eyes	Not irritating (rabbit) (OCED 405)
LCU - Innalative	>140->2000 mg/m3 / 4 n (Kat) (UCED 403)
LD50 - Dernial - Rabbit	>5000 mg/kg (Rabbic) >5000 mg/kg (Rat) (OFCD 401)
Other information -	=> 1340 mg/kg/day
Oral	
Sensitization	Not sensitizating (guinea pig) (OCED 406)
	ACGIH The American Conference of Governmental Industrial Hygienists classifies carbon black as
	A4, Not Classifiable as a Human Carcinogen.
Carcinogenicity Classification	GHS- Not a hazardous substance or preparation according to the Global Harmonized System (GHS).
Human Epidemiology	Results of epidemiological studies of carbon black production workers suggest that cumulative
	exposure to carbon black may result in small decrements in lung function, as measured by FEV1.
	(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 bighest 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
lluman Enidemialanu	drawing of definitive conclusions about symptoms.
Human Epidemiology -	Since this IARC evaluation of carbon black, Soranan and Harrington 16) re-analyzed the UK study data using an alternative exposure hypothesis and found a positive association with
conc	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
Human Enidemiology -	exposure hypothesis used by Sorahan and Harrington 16). Morfeld and McCuppey 19) applied a Bayesian approach to upravel the role of upcontrolled
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
	consistent with the IARC evaluation in 2006. Several enidemiological 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
Human Enidomiology	relationship was observed in workers exposed to carbon black.
cont.	with negligible effects on lung function. A study on carbon black broduction 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
	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
TARC	IABC In 1995 IABC concluded. "There is inadequate evidence in humans for the carcinogenicity
IAICE	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 numans (Group 2B). In its 1987 review
	carbon black extracts " Carbon black extracts are classified as possibly carcinogenic to humans
	(Group 2B).
LD50 (Rat)	>8000 mg/kg
Mutagenic Effects and	In an experimental investigation, mutational changes in the heart 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
	secondary genoloxic 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
	areater 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	No experimental studies on effects of carbon black on fertility and reproduction have been
Teratogenic Effects	located. However, based on toxicokinetic data, carbon black is deposited in the lungs and based
	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	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
STOT single exposure	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
Distant should be have	STOT, Repeated Exposure classification is made
Additional Information	l ether(112-34-5) Repeated dose toxicity
	mg/kg RTECS: K19100000 To the best of our knowledge the chemical physical and
	toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based
	on Human Evidence Stomach - Irregularities - Based on Human Evidence
Aspiration hazard	No data available.
Carcinogenicity	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
male	2,410 1119/1113
LD50 Oral - Rat - male	3.305 mg/kg
Repeated Dose Toxicity	In animals, effects have been reported on the following organs: Blood. kidney. Liver
Reproductive toxicity	In animals studies, did not interfere with reproduction. However, body weights of newborn
	animals were decreased.
Respiratory or skin	Maximization Test GPMT, Guinea pig Result: Does not cause skin sensitization. (OECD Test
	Cuid-line (OC)

Serious eye	May cause severe eye irritation. May cause slight corneal injury.
damage/eye irritation	
Skin	Skin - Rabbit Result: Mild skin irritation - 1 h (OECD Test Guideline 404)
corrosion/irritation	
Specific target organ	NO data avallable.
exposure	
Specific target organ	No data available
toxicity - single	
exposure	
Ethylene glycol mono bu	ityl ether(111-76-2)
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
	carcinogenic effects with no relevance to humans., Carcinogenicity-Assement: Not evidence of
Eurther information	Carcinogenicity in animal studies
Further information	and vomiting
Germ cell mutagenicity	Genotovicity in vitro: Test Type: Mammalian cell gene mutation assay: Test species: Chinese
Germ cen matagementy	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
LDEQ (ret) dermal	component/mixture is moderately toxic after single ingestion.
LD50 (rat) dermai	Acute toxicity estimate: 1,1000 mg/kg; Method: Expert judgment; Assessment: the
Repeated dose toxicity	Species: rat NOAEL: 30. Application Poute: Inhalation Exposure time: 14 wk Number of
Repeated dose toxicity	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
Respiratory or chip	development, based on animal experiments
sensitsation	laboratory animals
Serious eve damage/	Species rabbit. Exposure time 24 h. Result: Irritating to eves.
eye irritation	
Skin	Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h,
corrosion/irritation	Result: Mild skin irritation
STOT - repeated	No data available.
exposure	
STOT - single exposure	No data available.
Ethylene Glycol(107-21-	
Aspiration hazard	No aspiration toxicity classification.
Carcinogenicity	Species: mouse, (male, remale), Application Koute: Oral, Exposure time: 24 months, Dose: 0,
	40, 200, 1000 Mg/kg, ually, LOALE. 1,000 Mg/kg, Result: AMDIGUOUS., Carcinogenicity -
Further information	Remarks: No data available
Germ cell mutagenicity	Test Type: Ames test, Metabolic activation: with and without activation. Method OFCD Test
Certificer matagementy	Guideline 471, Result: negative, GLP: ves.
LC50 Inhalation	>2.5 mg/l, Exposure time: 6 h, Test atmosphere: dust/mist. Assessment: The substance or
Toxicity - (Rat)	mixture has no acute inhalation toxicity.
LD50 Dermal Toxicity	>3,500 mg/kg, Assessment: The substance or mixture has no acute dermal toxicity.
(Mouse)	
LD50 Oral - Rat Acute	2,000 mg/kg, Assement: This component/mixture is moderately toxic after single ingestion.
toxicity	
Reproductive toxicity	Kesuits: No reproductive effects.
Kespiratory or skin	Laboratory animals
Serious eve	Species: rabbit Result: No eve irritation Exposure time 24 h. Method: In vive
damage/eve irritation	Species, rabbit, result. No eye initiation, exposure time 24 fl, Methou. In VIVO.
Skin	Skin - Rabbit Result, Exposure time: 20 h, Method: In vivo, Result: No skin irritation
corrosion/irritation	

Specific target organ toxicity - repeated exposure	Oral - May cause damage to organs through prolonged or repeated exposure Kidney
Specific target organ toxicity - single exposure	No data available.
Isobutyl Alcohol(78-83-1	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.
Styrene(100-42-5)	
Irritation / corrosion - Eye	Species: Rabbit; Result: non-irritant; Method: BASF - Test
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
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
ORAL ALD (rat) Sensitsation	>2400 mg/kg Did not cause sensitsation on laboratory animals.

12. ECOLOGICAL INFORMATION

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	Biodegradability Biotic/Aerobic - Exposure time 28 d Result: 100 % - Readily biodegradable
degradability	
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
vPvB assessment	
Acrylonitrile(107-13-1)	
Bioaccumulative	Bioaccumulation Lepomis macrochirus - 14 d - 9.94 µg/l Bioconcentration factor (BCF): 48
potential	
EC50 Toxicity to	7.4 - 10.0 mg/l - 48 h, Daphnia magna (Water flea)
daphnia and other	
aquatic invertebrates -	

Daphnia magna	
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
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Aliphatic Solvent(64742-	-47-8)
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	2.9 mg/l - 96 h. Opcorbynchus mykics (rainbow trout)
Toxicity to fish	
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. No data available.
Persistence and degradability	No data available.
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
vPvB assessment	
Aluminum Hydroxide(21	045-51-2)
	mert material.
FC50 - Daphnia -	>10 000 mg/L Daphnia magna (Water flea) (OECD Test Guideline 202)
Toxicity to daphnia and	
other aquatic	
invertebrates	
EC50 - Fish - Toxicity	>10,000 mg/l, Fish
ro fish	To ach an ta dal
MODILITY IN SOIL	Inert material
NOEC Toxicity to	20.004 mg/l 72 b. Broudekirchnerielle subcepitate (algee) (OECD Test Cuideline 201)
NOEC - Toxicity to	>0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201)
NOEC - Toxicity to algae Other adverse effects	>0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known.
NOEC - Toxicity to algae Other adverse effects Persistence and	 >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable
NOEC - Toxicity to algae Other adverse effects Persistence and degradability	 >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201) None known. Non-degradable
NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631-	None known. Non-degradable
NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information	>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.
NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative	>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 relevant information available.
NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential	>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 relevant information available.
NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential EC50 - Algae	>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 relevant information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance
NOEC - Toxicity to algae Other adverse effects Persistence and degradability Amorphous Silica(7631- Additional ecological information Bioaccumulative potential EC50 - Algae EC50 - Daphnia magna	None known. Non-degradable 86-9) General notes: Do not allow product to reach ground water, water course or sewage system. No further relevant information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202)
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	>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 relevant 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)
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	 >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 relevant 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 relevant information available.
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	>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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process.
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 Carbon Black(1333-86-4	>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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process.
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 Carbon Black(1333-86-4 Behavior in water	>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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test)
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 Carbon Black(1333-86-4 Behavior in water treatment plants	>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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. Particular Structure Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test)
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 Carbon Black(1333-86-4 Behavior in water treatment plants Bioaccumulation Potential	 >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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test) Potential bioaccumulation is not expected because of the physicochemical properties of the substance
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 Carbon Black(1333-86-4 Behavior in water treatment plants Bioaccumulation Potential EC50 (Scenedesmus subspicatus)	 >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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test) Potential bioaccumulation is not expected because of the physicochemical properties of the substance > 10,000 mg/L, OECD (Guideline 201)
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 Carbon Black(1333-86-4 Behavior in water treatment plants Bioaccumulation Potential EC50 (Scenedesmus subspicatus) EC50 Daphnia magna (waterflea)	>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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. Potential bioaccumulation is not expected because of the physicochemical properties of the substance > 10,000 mg/L, OECD (Guideline 201) >5600 mg/l (24 h) OECD (Guideline 202)
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 Carbon Black(1333-86-4 Behavior in water treatment plants Bioaccumulation Potential EC50 (Scenedesmus subspicatus) EC50 Daphnia magna (waterflea) Environmental fate	>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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. N Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test) Potential bioaccumulation is not expected because of the physicochemical properties of the substance > 10,000 mg/L, OECD (Guideline 201) > 5600 mg/l (24 h) OECD (Guideline 202) Carbon black is an inert solid, stable and insoluble in water or organic solvents. Its vapor
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 Carbon Black(1333-86-4 Behavior in water treatment plants Bioaccumulation Potential EC50 (Scenedesmus subspicatus) EC50 Daphnia magna (waterflea)	>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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. H Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test) Potential bioaccumulation is not expected because of the physicochemical properties of the substance > 10,000 mg/L, OECD (Guideline 201) > 5600 mg/l (24 h) OECD (Guideline 202) Carbon black is an inert solid, stable and insoluble in water or organic solvents. Its vapor pressure is negligible. Based on these properties it is expected that carbon black will not occur in
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 Carbon Black(1333-86-4 Behavior in water treatment plants Bioaccumulation Potential EC50 (Scenedesmus subspicatus) EC50 Daphnia magna (waterflea) Environmental fate	 >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 relevant 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 (Daphnia magna) (24 h) (OCED 203) No further relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test) Potential bioaccumulation is not expected because of the physicochemical properties of the substance > 10,000 mg/l (24 h) OECD (Guideline 201) >5600 mg/l (24 h) OECD (Guideline 202) Carbon black is an inert solid, stable and insoluble in water or organic solvents. Its vapor 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.
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 Carbon Black(1333-86-4 Behavior in water treatment plants Bioaccumulation Potential EC50 (Scenedesmus subspicatus) EC50 Daphnia magna (waterflea) Environmental fate	 >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 relevant 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 (Daphnia magna) (24 h) (OCED 203) No further relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test) Potential bioaccumulation is not expected because of the physicochemical properties of the substance > 10,000 mg/l (24 h) OECD (Guideline 201) >5600 mg/l (24 h) OECD (Guideline 202) Carbon black is an inert solid, stable and insoluble in water or organic solvents. Its vapor 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 organical comparation.
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 Carbon Black(1333-86-4 Behavior in water treatment plants Bioaccumulation Potential EC50 (Scenedesmus subspicatus) EC50 Daphnia magna (waterflea) Environmental fate	>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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test) Potential bioaccumulation is not expected because of the physicochemical properties of the substance > 10,000 mg/l (24 h) OECD (Guideline 201) >5600 mg/l (24 h) OECD (Guideline 202) Carbon black is an inert solid, stable and insoluble in water or organic solvents. Its vapor 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. >10000 DECD (Guideline 203)
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 Carbon Black(1333-86-4 Behavior in water treatment plants Bioaccumulation Potential EC50 (Scenedesmus subspicatus) EC50 Daphnia magna (waterflea) Environmental fate LC50 Brachydanio reio (zebrafish)	 >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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test) Potential bioaccumulation is not expected because of the physicochemical properties of the substance > 10,000 mg/l (24 h) OECD (Guideline 201) > 5600 mg/l (24 h) OECD (Guideline 202) Carbon black is an inert solid, stable and insoluble in water or organic solvents. Its vapor 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. > 10000 mg/l (96 h) OECD (Guideline 203)
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 Carbon Black(1333-86-4 Behavior in water treatment plants Bioaccumulation Potential EC50 (Scenedesmus subspicatus) EC50 Daphnia magna (waterflea) Environmental fate LC50 Brachydanio reio (zebrafish) NOEC 50 (Scenedesmus	 >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 relevant 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 relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. Activated sludge, ECO (3 h) > 800 mg/L. DEV L3 (TTC test) Potential bioaccumulation is not expected because of the physicochemical properties of the substance > 10,000 mg/l (24 h) OECD (Guideline 202) Carbon black is an inert solid, stable and insoluble in water or organic solvents. Its vapor pressure is negligible. Based on these properties it is expected that carbon black will not occur in air or water in relevant amounts. Also protential 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. > 10,000 mg/L, OECD (Guideline 203) > 10,000 mg/L, OECD (Guideline 203)
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 Carbon Black(1333-86-4 Behavior in water treatment plants Bioaccumulation Potential EC50 (Scenedesmus subspicatus) EC50 Daphnia magna (waterflea) Environmental fate LC50 Brachydanio reio (zebrafish) NOEC 50 (Scenedesmus subspicatus)	>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 relevant information available. >10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >10000 mg/l (Cabra fish) (96 h) (static) (OCED 202) 10000 mg/l (cabra fish) (96 h) (static) (OCED 203) No further relevant information available. The product is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process. Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test) Potential bioaccumulation is not expected because of the physicochemical properties of the substance > 10,000 mg/l (24 h) OECD (Guideline 201) >5600 mg/l (24 h) OECD (Guideline 202) Carbon black is an inert solid, stable and insoluble in water or organic solvents. Its vapor 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. >10000 mg/l (96 h) OECD (Guideline 203) > 10,000 mg/L, OECD (Guideline 203)

12.6 Other adverse effects No data available. Bioaccumulative potential mana and the anguatic invertebrates >100 mg/l - 48 h - Daphnia magna (Water flea), (Directive 67/548/EEC, Annex V, C.2.) ECSD Deprodomsung adverted particle invertebrates >100 mg/l - 48 h - Daphnia magna (Water flea), (Directive 67/548/EEC, Annex V, C.2.) ECSD Deprodomsung adverted particle invertebrates 1,300 mg/l - 96 h - Desmodesmus subspicatus (Scenedesmus subspicatus) - (OECD Test Guideline 201) I Stab Guideline 201) 1,300 mg/l - 16 h - Pseudomonas putida I CSD Peudomonas 1170 mg/l - 16 h - Pseudomonas putida Dutator in Sish 1170 mg/l - 16 h - Pseudomonas putida Description Toxicity to bacteria Pateltional for mobility arobic - Exposure time 28 d Result: 91.7 % - Readily biodegradable (OECD degradablity Test Guideline 2016) Ethio materia Parteltional for mobility arobic - Exposure time: 22 h Test Type: static test Analytical monitoring: yee Method: OECD Test Guideline 2016 in: no LCSO (Mgabhia) 1,800 mg/l (48 h; Daphnia magna (Water flea)); Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 2012 in: no LCSO (Mgabhia) LCSO (Fish) 1,474 mg/l Fimephales promelas (Fathead minnow))Exposure time: 48 h Test Type: static test, Method: OECD Test Guideline 2012 in: no LCSO fishi LCSO (Fish) 1,474 mg/l Fimephales promelas (Fathead minnow)):Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 202, GLP: no	Diethylene glycol n-buty	l ether(112-34-5)
Bioaccumulative potential Bioaccumulative potential >100 mg/l - 48 h - Daphnia magna (Water flea), (Directive 67/548/EEC, Annex V, C.2.) Toxicity to daphnia and other aquatic invertebratus >100 mg/l - 48 h - Desmodesmus subspicatus (Scenedesmus subspicatus) - (OECD Test Guideline 201) Closp Lepomis macrochiurs - Toxicity to fish 1,300 mg/l - 96 h - Lepomis macrochirus (OECD Test Guideline 203) LCS0 Periodic 1,700 mg/l - 16 h - Pseudomonas putida Dida - Toxicity to fish 1170 mg/l - 16 h - Pseudomonas putida Ethylene alycol mono butyl ethylene alycol mono butyl ether(111/62-2). Bioaccumulative Bioaccumulative potential Predictional for mobility in soil very high (koc between 0 and 50). Ethylene alycol mono butyl ether(111/62-2). Bioaccumulative Bioaccumulative potential Partition coefficient: n-octanol/water: log Pow: 0.83 potential ECS0 (Clophnia) J, Bod mg/l 48 h; D panhia magn (Water flea)): Exposure time: 24 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: no LCS0 (Fish) 1, 47 mg/l Finepanhia magn (Water flea): Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 202 GLP: no LCS0 (Glaphnia) 1, 000 mg/l (24 h; D panhia magn (Water flea): Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no LCS0 (Glaphnia) Product I, 47 mg/l Finepanhia spromelas (Tehead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no LCS0 (Glaphnia)	12.6 Other adverse effects	No data available.
ECSD Daphnia magna other aquatic invertebrates >100 mg/l - 48 h - Daphnia magna (Water flea), (Directive 67/548/EEC, Annex V, C.2.) ECSD Desmodesmus 100 mg/l - 96 h - Desmodesmus subspicatus (Scenedesmus subspicatus) - (OECD Test gideline 201) of algae 1,300 mg/l - 96 h - Leponis macrochirus (OECD Test Guideline 203) LCSD Leponis 1,300 mg/l - 16 h - Pseudomonas putida putida - Toxicity didata - Toxicity obacteria 1170 mg/l - 16 h - Pseudomonas putida Mobility in soil Pateitional for mobility in soil very high (koc between 0 and 50). Persistence and Biodagradability aerois - Exposure time 20 A Result: 91.7 % - Readily biodegradabile (OECD degradability ECSO (Daphnia) 1,800 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Metrici - OECD Test Guideline 201 GLP: no ECSO (Daphnia) 1,400 mg/l End point: Biomass Exposure time: 72 h Test Type: static test, Methici - OECD Test Guideline 201 GLP: no LCSO (fish) 1,474 mg/l Fimephales promelas (Fathead minnow))Exposure time: 86 h Test Type: static test, Methici - OECD Test Guideline 202 GLP: no Persistence and degradability -010 mg/l (Daphnia magna (Water flea)), Exposure time: 28 h Method: OECD Test Guideline 201 GLP: no Product Regulation: 40CCR Pers Coulenie 203 GLP: no LCSO Toxicity to ish 100 mg/l (Perspendescoulenie 203 GLP: no	Bioaccumulative potential	Bioconcentration poteitional is low (BCF <100 or Log Pow <3).
EC50 Desmodesmus 100 mg/l - 96 h - Desmodesmus subspicatus (Scenedesmus subspicatus) - (OECD Test of algae LC50 Lepomis 1,300 mg/l - 96 h - Lepomis macrochirus (OECD Test Guideline 203) Interpret Product 1170 mg/l - 16 h - Pseudomonas putida LC50 Pseudomonas 1170 mg/l - 16 h - Pseudomonas putida Mobility in soil Poteitional for mobility in soil very high (koc between 0 and 50). Biodegradability Test Guideline 2010 Etholen alvooi mono buyu Biodegradability aerobic - Exposure time 24 d Result: 91.7 % - Readily biodegradable (OECD degradability Test Guideline 2010) Etholen alvooi mono buyu Biodegradability aerobic - Exposure time: 24 d Result: 91.7 % - Readily biodegradable (OECD degradability Test Guideline 2010) Etholen alvooi mono buyu Biodegradability aerobic - Exposure time: 24 h Test Type: static test Analytical monitoring: yees Method: OECD Test Guideline 2013 GLP: no Mobility in soil EC50 (Daphnia) 1.474 mg/l Pinephales promelas (Fathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 202 GLP: no Methodi OECD Test Guideline 202 GLP: no Methodi OECD Test Guideline 202 GLP: no Product Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 CLass 1 Substances: Phylene Glycol(107-21-1) 100 mg/l (Daphnia magna (water flea)), Exposure time: 96 h, Test Type: static test, Method: OBr advarse affects No data available	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.)
LCS0 Leponis 1,300 mg/l - 96 h - Leponis macrochirus (OECD Test Guideline 203) Mobility in Soil 1170 mg/l - 16 h - Pseudomonas putida Mobility in soil Poteitional for mobility in soil very high (koc between 0 and 50). Persistence and Biodegradability aerobic - Exposure time 28 d Result: 91.7 % - Readily biodegradabile (OECD degradability aerobic - Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: no ECS0 (Agae) 911 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: no ECS0 (Fish) 1,474 mg/l Pimephales promelas (Fathead minnow))Exposure time: 48 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no Mobility in soil No data available Other adverse effects No data available Other adverse effects No data available Product Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances: Ethylene Glycol(107-21-1) 100 mg/l (Daphnia magna (water flea)), Exposure time: 26 d Method: OECD Test Guideline 202, GLP; yes. Guidelin advere data available No data available. Other adverse effects No data available. Product Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 600 mg/l (Daphnia magna (water flea)), Exposure	EC50 Desmodesmus subspicatus - Toxicity of algae	100 mg/l - 96 h - Desmodesmus subspicatus (Scenedesmus subspicatus) - (OECD Test Guideline 201)
LC50 Pseudomonas 1170 mg/l - 16 h - Pseudomonas putida putida - Toxicity to Biodegradability in soil Poteitional for mobility in soil very high (koc between 0 and 50). Persistence and Biodegradability aerobic - Exposure time 28 d Result: 91.7 % - Readily biodegradable (OECD degradability aerobic - Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: no EC50 (Algae) 911 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: no EC50 (Cophnia) 1,800 mg/l (48 h; Daphnia mangan (Water ffies)): Exposure time: 48 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no LC50 (fish) 1,474 mg/l Finiphales 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 Other adverse effects No data available Other adverse effects No data available Product Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances: Ethylene Giycol107-21-11 Ot 00 mg/l (Daphnia magna (water ffea)), Exposure time: 96 h, Test Type: static test, Method: OECD Test Guideline 202, GLP: yes. LC50 Toxicity to fish 100 mg/l (Papeudokirchneriella subcapitata (Selenastrum capricornutum)), Exposur	LC50 Lepomis macrochirus - Toxicity to fish	1,300 mg/l - 96 h - Lepomis macrochirus (OECD Test Guideline 203)
Mobility in soil Potetitional for mobility in soil very high (koc between 0 and 50). Persistence and Biodegradability Test Guideline 301B) Ethylene giveol mon butyl tehrc(111-76-2) Bioaccumulative Partition coefficient: n-octanol/water: log Pow: 0.83 potential 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/(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 Other adverse effects No data available Other adverse effects No data available Other adverse effects No data available Product Regruptation: 90.4 % Exposure time: 28 d Method: OECD Test Guideline 301 B GLP: no LC50 Toxicity to daphnia and other >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 dapting wold No data available. Other adverse effects No data available. Other adverse effects No data available. Other adverse effects No	LC50 Pseudomonas putida - Toxicity to bacteria	1170 mg/l - 16 h - Pseudomonas putida
Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 91.7 % - Readily biodegradable (OECD degradability Ethylene glycol mono buryl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83 potential 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 1.800 mg/l (48 h; Daphnia magna (Water flea)): Exposure time: 48 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no 1.474 mg/l Pimephales promelas (rathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no 1.474 mg/l Pimephales promelas (rathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no 1.474 mg/l Pimephales promelas (rathead minnow))Exposure time: 28 d Method: OECD Test Guideline 203 GLP: no 0.404 available Persistence and degradability degradability GLP: no Forduct No data available Orduct Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances: Ethylene Glycol(107-21-1) LCS0 Toxicity to CSD Toxicity to CSD Toxicity to D10 mg/l (Dephnia magna (water flea)), Exposure time: 48 h, Test type: static test, Method: OECD Test Guideline 202, GLP: yes. LCS0 Toxicity to D4 available. No data available. Persistence and Aerobic, Inoculum: Activated sludge, domestic, adaption not specificied, Biodegradation: 90- 10egradability No data available. Persistence and Aerobic, Inoculum: Activated sludge, domestic, adaption not specif	Mobility in soil	Poteitional for mobility in soil very high (koc between 0 and 50).
Ethylene glycol mono butyl ether(111-76-2) 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) 1,474 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 aerobic Inoculum: Activated sludge, domestic, adaption not specified, Result: Readily biodegradable. Biodegradation: 90.4 % Exposure time: 28 d Method: OECD Test Guideline 201 GLP: no Product Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances: LC50 Toxicity to aguatic invertebrates 100 mg/l (Daphnia magna (water flea)), Exposure time: 96 h, Test Type: static test, Method: OBCD Test Guideline 202, GLP: yes. aguatic invertebrates UC50 Toxicity to fish 100 mg/l (Pimephales promelas (fathead minnow)): Exposure time: 96 h, Test Type: static test. Mobility in soil No data available. Other adverse effects No data available. Other diverse effects No data available. Other diverse effects No data available. Other diverse effects </td <td>Persistence and degradability</td> <td>Biodegradability aerobic - Exposure time 28 d Result: 91.7 % - Readily biodegradable (OECD Test Guideline 301B)</td>	Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 91.7 % - Readily biodegradable (OECD Test Guideline 301B)
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: yees 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 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 biodegradabic. Biodegradation: 90.4 % Exposure time: 28 d Method: OECD Test Guideline 3018 Ethylene Glycol(107-21-1) 1.00 mg/l (Daphnia magna (water flea)), Exposure time: 48 h, Test type: static test, Method: OECD Test Guideline 202, GLP: yes. LC50 Toxicity to daphnia and other aquatic invertebrates 1.00 mg/l (Pimephales promelas (fathead minnow)): Exposure time: 96 h, Test Type: static test. Persistence and degradability Persistence indo Aerobic, Inoculum: Activated sludge, domestic, adaption not specificiad, Biodegradation: 90- 100 mg/l (Pimephales promelas (fathead minnow)): Exposure time: 96 h, Test Type: static t	Ethylene glycol mono bu	tyl ether(111-76-2)
EC50 (Algae) 911 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 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 203 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 Orther adverse effects No data available Persistence and degradability Berobic Thoculum: 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(107-21-1) LC50 Toxicity to daphnia and other aquatic invertebrates >100 mg/l (Daphnia magna (water flea)), Exposure time: 96 h, Test Type: static test, Method: OECD Test Guideline 202, GLP: yes. LC50 Toxicity to degradability No data available. No data available. Other adverse effects. No data available. No data available. Persistence and degradability in soil No data available. PBT/NPVB assessment not available. Prosticty to fish 100 mg/l (Pimephales promelas (fathead minnow)): Exposure time: 96 h, Test Type: static	Bioaccumulative potential	Partition coefficient: n-octanol/water: log Pow: 0.83
ECS0 (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 LCS0 (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 Incoulum: 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: Ethviene Givcol(107-21-1) DECD Test Guideline 202, GLP: yes. LCS0 Toxicity to daptinia and other aquatic invertebrates 000 mg/l (Daphnia magna (water flea)), Exposure time: 96 h, Test Type: static test. Mobility in soil No data available. OECD Test Guideline 202, GLP: yes. Persistence and degradability No data available. Oether adverse effects No bata available. No data available. Oether adverse effects No bata available. No data available. PBT/vPVB assessment not available PVFVB assessment >100 mg/l (Pseudokirchneriella subcapitata (Selenastrum capricomutum)), Exposure time 96 h, Test type: static test.	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
LCS0 (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 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(107-21-1) LCS0 Toxicity to data available. LCS0 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. LCS0 Toxicity to fish 100 mg/l (Pimephales promelas (fathead minnow)): Exposure time: 96 h, Test Type: static test. Mobility in soil No data available. Other adverse effects No data available. Other adverse effects No data available. Persistence and degradability Aerobic, Incoulum: Activated sludge, domestic, adaption not specified, Biodegradation: 90-100%, Exposure time 10 d, GLP: yes, Remarks: Readily biodegradable. PortyPWB assessment No data available Toxicity to Bacteria >10,000 mg/l (Piseudokirchneriella subcapitata (Selenastrum capricornutum)), Exposure time 96 h, Test type: static test. Tox	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
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(107-21-1) LC50 Toxicity to daptina 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 No data available. Other adverse effects No data available. Persistence and degradability Aerobic, Inoculum: Activated sludge, domestic, adaption not specificied, Biodegradation: 90- 100%, Exposure time 10 d, GLP: yes, Remarks: Readily biodegradable. Toxicity to fast PBT/VPVB assessment Toxicity to Bacteria >100 mg/l (Pseudokirchneriella subcapitata (Selenastrum capricomutum)), Exposure time 96 h, Test type: static test. Toxicity to Bacteria >100 mg/l (Pseudokirchneriella subcapitata (Selenastrum capricomutum)), Exposure time 96 h, Test type: static test. Toxicity to Bacteria >100	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
Other adverse effects No data available Persistence and degradability aerobic Incoculum: 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(107-21-1) >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. Other adverse effects No data available. Other adverse effects No data available. VPVB assessment PBT/vPvB assessment not available VPVB assessment >100 mg/l (Pseudokirchneriella subcapitata (Selenastrum capricornutum)), Exposure time 96 h, Test type: static test. Isobutyl Alcohol(78-83-1) No data available. Chronic No data available. Degradability / Persistence; Biological / Biological >100 mg/l (Pseudokirchneriella subcapitata (Selenastrum capricornutum)), Exposure time 96 h, Test type: static test. LC50 - Daphnia - Acute >100 mg/l (172 h) The product has not been tested. The statement has bee	Mobility in soil	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(107-21-1) LC50 Toxicity to daphnia and other >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 No data available. Other adverse effects 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. PRF PBT/VPWB assessment not available VPVB assessment >100 mg/l (Pseudokirchneriella subcapitata (Selenastrum capricornutum)), Exposure time 96 h, Test type: static test. Toxicity to Bacteria >100 omg/l (72 h) The product has not been tested. The statement has been derived from properties of the individual components. EC50 - Aguatic Plants >100 mg/l (72 h) The product has not been tested. The statement has been derived from properties of the individual components. Ec50 - Aguatic Plants <t< td=""><td>Other adverse effects</td><td>No data available</td></t<>	Other adverse effects	No data available
degradability 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(107-21-1) LC50 Toxicity to older and other aduatic invertebrates LC50 Toxicity to fish 100 mg/l (Daphnia magna (water flea)), Exposure time 48 h, Test type: static test, Method: OECD Test Guideline 202, GLP: yes. QDther adverse effects No data available. Persistence and depresent and available. No data available. Persistence and vPVB assessment Aerobic, Inoculum: Activated sludge, domestic, adaption not specificied, Biodegradation: 90-100%, Exposure time 10 d, GLP: yes, Remarks: Readily biodegradable. VPB assessment >100 mg/l (Pseudokirchneriella subcapitata (Selenastrum capricornutum)), Exposure time 96 h, Test type: static test. Toxicity to Bacteria >100 mg/l, Exposure time: 16 h, Test type: Static, Method: DIN 38412. Isobutyl Alcohol(78-83-1) Chronic No data available. Evaluation: Not readily biodegradable (by OECD criteria). Pegradability / Feological / Biological >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	Persistence and	aerobic Inoculum: Activated sludge, domestic, adaption not specified, Result: Readily
Product Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances: Ethylene Glycol(107-21-1) 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 No data available. Other adverse effects No data available. Persistence and degradability Aerobic, Inoculum: Activated sludge, domestic, adaption not specificied, Biodegradation: 90- 100%, Exposure time 10 d, GLP: yes, Remarks: Readily biodegradable. Results of PBT and vPVB assessment >100 mg/l (Pseudokirchneriella subcapitata (Selenastrum capricornutum)), Exposure time 96 h, Test type: static test. Toxicity to Bacteria >100 mg/l, Exposure time: 16 h, Test type: Static, Method: DIN 38412. Isobutyl Alcohol(78-83-1) No data available. Chronic No data available. Degradability / Persistence; Biological Degradation >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 (96 h) The product has not been tested. The statement has been derived from properties of the individual components.	degradability	biodegradable. Biodegradation: 90.4 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: no
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Chronic No data available regarding toxicity to fish.	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 degredation activity sludge is not anticated
	when introduced to biological treatment plants in appropriate low conceratrations.
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 RESTRCITIONS 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
Ethylene Glycol	107-21-1
Carbon Black	1333-86-4
Isobutyl Alcohol	78-83-1

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

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

This product contains:	Chemical CAS#
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
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
Acrylic Acid	79-10-7

INTERNATIONAL REGULATIONS

CLASSIFICATION ACCORDING TO REGULATION (EC) No. 1272/2008 (CLP) : Eye Irrit. 2 H319

NATIONAL REGULATIONS

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

Indicates a chemical listed by IARC as a possible carcinogen.

STATE REGULATIONS **CALIFORNIA PROPOSITION 65**

This product contains:	Chemical CAS#
*Aliphatic Solvent	64742-47-8
*Acrylonitrile	107-13-1

*This product contains (a) chemical (s) known to the State of California to cause cancer.

#This product contains (a) chemical (s) known to the State of California to be carcinogenic.

+This product contains (a) chemical (s) known to the State of California to cause birth defects or other reproductive harm.

Massachusetts Right to Know		
This product contains	Chemical CAS#	
Ethylene glycol mono butyl ether	111-76-2	
Ethylene Glycol	107-21-1	
Aliphatic Solvent	64742-47-8	
Carbon Black	1333-86-4	
Ammonium Benzoate	1863-63-4	
Isobutyl Alcohol	78-83-1	
Acrylic Acid	79-10-7	

Acrylonitrile	107-13-1
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Pennsylvania Right to Know

This product contains	Chemical CAS#
Water	7732-18-5
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
Ethylene Glycol	107-21-1
Aliphatic Solvent	64742-47-8
Carbon Black	1333-86-4
Ammonium Benzoate	1863-63-4
Isobutyl Alcohol	78-83-1
Acrylic Acid	79-10-7
Acrylonitrile	107-13-1

New Jersey Right to Know

This product contains	Chemical CAS#
Water	7732-18-5
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
Ethylene Glycol	107-21-1
Aliphatic Solvent	64742-47-8
Carbon Black	1333-86-4
Isobutyl Alcohol	78-83-1
Acrylic Acid	79-10-7
Acrylonitrile	107-13-1

16. OTHER INFORMATION

Other Product Information

% Volatile by Volume: 65.39 % Solids by volume: 34.61 % Exempt by Volume: 55.31 % Volatile by Weight: 51.92 % Solids by Weight: 48.08 % Exempt by Weight: 44.46

VOC CONTENT:

Excluding Exempt VOC: 207 Including Exempt VOC: 93

HMIS RATING Health : 1 Flammability : 1 Reactivity : 0

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Personal Protection :

NFPA CODES



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