SAFETY DATA SHEET



 DATE ISSUED :
 7/31/2015

 SDS REF. No :
 6600 SERIES

6600 Series

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 6600 SERIES GLOSS POLYURETHANE

PRODUCT CODE: 6600 Series

PRODUCT USE: Industrial Solventborne Paint

MANUFACTURER 24 HR. EMERGENCY TELEPHONE NUMBER

Cardinal Industrial Finishes

CHEMTREC (US Transportation): (800)424-9300
1329 Potrero Ave

CHEMTREC (International : 1(202)483-7616

Transportation)

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

2. HAZARDS IDENTIFICATION

PICTOGRAMS



SIGNAL WORD: DANGER

HAZARD STATEMENTS: H226 Flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.

R40 Limited evidence of a carcinogenic effect.

S36 Wear suitable protective clothing.

S37 Wear suitable gloves.

P233 Keep container tightly closed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number	
Titanium Dioxide	35% - 40%	13463-67-7	
n-Butyl Acetate	15% - 20%	123-86-4	
Methyl Amyl Ketone	5% - 10%	110-43-0	
Methyl Ethyl Ketone	1% - 5%	78-93-3	

Amorphous Silica	1% - 5%	7631-86-9	

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 and measures.

EYES CONTACT: Flush with large quantities of water for 15 to 30 minutes. Remove contact lenses. Keep eyes wide open while rising. If eye irritation persists: Get medical attention.

SKIN CONTACT: Wash exposed area with mild soap and water for 15 to 30 minutes. Remove contaminated clothing. Repeated exposure may cause dryness or cracking.

INGESTION: Rinse mouth. Do NOT induce vomiting. Keep victim warm and seek immediate attention.

INHALATION: Remove to fresh air and keep in a position comfortable to breath. Call a doctor/physician if you feel unwell. Get medical attention.

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: In the event of a fire, use specifically suitable extinguishing agents. Suitable extinguishing media: Foam, alcohol resistant foam, CO2, water fog. Unsuitable extinguishing media: Do not use heavy water stream. A heavy water stream my spread burning liquid.

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

Aluminum Hydroxide(21645-51-2)				
USA ACGIH	ACGIH (TLV) TWA	10 mg/m3 (Total dust), 3 mg/m3		
		(Reparable fraction)		
USA OSHA	OSHA (PEL) TWA	15 mg/m3 (Tptal dust), 5 mg/m3		
		(Reparable fraction)		
Carbon Black(1333-86-4)				
USA ACGIH	ACGIH TLV (mg/m3)	3.0 mg/m3		
USA OSHA	OSHA PEL (mg/m3)	3.5 mg/m3		
Dibutyltin Dilaurate(77-58-7)				
USA ACGIH	ACGIH STEL	0.2 mg/m3		
USA ACGIH	ACGIH TWA	0.1 mg/m3		
USA NIOSH	NIOSH REL	0.1 mg/m3		
USA OSHA	OSHA PEL (Table Z-1)	0.1 mg/m3		
USA OSHA	OSHA TWA (Table Z-1A)	0.1 mg/m3		
Methyl Amyl Ketone(110-43-0)				
USA ACGIH	ACGIH TLV TWA	50 ppm		
USA OSHA	OSHA PEL (Table Z-1)	100 ppm, 465 mg/m3		
Methyl Ethyl Ketone(78-93-3)				
USA ACGIH	ACGIH STEL (ppm)	300 ppm		
USA ACGIH	ACGIH TWA (ppm)	200 ppm		
USA OSHA	OSHA PEL (STEL) (ppm)	100 ppm		
USA OSHA	OSHA PEL TWA (mg/m3)	410 mg/m3		
n-Butyl Acetate(123-86-4)				
USA ACGIH	ACGIH STEL	200 ppm		
USA ACGIH	ACGIH TWA	150 ppm		
USA OSHA	OSHA PEL (Table Z-1)	150 ppm, 710 mg/m3		
Styrene(100-42-5)				
USA ACGIH	ACGIH STEL (ppm)	40 ppm		
USA ACGIH	ACGIH TWA (ppm)	20 ppm		
USA OSHA	OSHA TWA (ppm)	100 ppm		
Titanium Dioxide(13463-67-7)				
PEI (Permissible Exposure Limit)	OSHA TWA	15 mg/m3		
TLV	ACGIH TWA	10 mg/m3		

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: If TLV of the product or any component is exceeded, a NIOSH approved dust respirator is advised in absence of environmental control. OSHA Regulations also permit other NIOSH dust 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: Eye wash bottle with pure water.

Tightly fitting safety goggles.

Where face-shield and protective suit for abnormal processing problems.

SKIN AND BODY PROTECTION: Wear impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	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	:	175.0 deg F TO 305.0 deg F
Flash point	:	24.00 deg F
Lower explosion limit	:	1.1
Upper explosion limit	:	11.0
Vapor pressure	:	185 mm Hg
Vapor density	:	Heavier than air
Relative density	:	No data available.
Density	:	12.0245
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 under normal conditions.

CONDITIONS TO AVOID: Heat, flames and sparks. Extremely high temperatures and direct sunlight.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

11. TOXICOLOGICAL INFORMATION

Aluminum Hydroxide(21	Aluminum Hydroxide(21645-51-2)	
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 sensitization	Maximization Test (GPMT) - Guinea pig Result- Does not cause skin sensitization.(OECD Test 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)	
corrosion/irritation		
Specific target organ	No data available.	
toxicity - repeated	D 4 612	

exposure	
Specific target organ	No data available.
toxicity - single	
exposure	
Amorphous Silica(7631-	
Additional toxicological	The product is not subject to classification according ot internally approved calculation methods
information	for preparations: When used and handled according to specifications, the product does not have
T. Hard Collins	any harmful effects according to our experience and information provided to us.
Irritant of skin	Not irritating (rabbit) (OCED 404)
Irritation of eyes LC0 - Inhalative	Not irritating (rabbit) (OCED 405)
LD50 - Dermal - Rabbit	>140->2000 mg/m3 / 4 h (Rat) (OCED 403) >5000 mg/kg (Rabbit)
LD50 - Oral - Rat	>5000 mg/kg (Rabit) >5000 mg/kg (Rat) (OECD 401)
Other information -	>> 1340 mg/kg (Nat) (OLCD 401)
Oral	-> 1540 Hig/Rg/ddy
Sensitization	Not sensitizing (guinea pig) (OCED 406)
Carbon Black(1333-86-4	
ACGIH	ACGIH The American Conference of Governmental Industrial Hygienists classifies carbon black as
	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
	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
F	drawing of definitive conclusions about symptoms.
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 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) .I
IARC	IARC In 1995 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity
	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 (Rat)	>8000 mg/kg
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 Genotoxicity oxygen species. This mechanism is considered to be a secondary Genotoxicity 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 fetus under in vivo conditions. Therefore, no adverse effects of carbon black to fertility/reproduction or to fetal 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.
exposure STOT- single exposure	Inhalation studies with the rat showed lung effects (see Section 11.2 and 11.2), these effects
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
Dibutyltin Dilaurate(77-5	
Chronic Health Hazard	Dibutyltin compounds have shown reproductive and immunologic effects in laboratory animals. Abnormalities noted at necropsy of animals treated with 2000 mg/kg of dibutyltin dilaurate were hemorrhagic lungs, dark liver, dark kidneys, hemorrhage of gastric mucosa, hemorrhage of the large and small intestines, enlarged bile duct and behavioral and central nervous system effects. Decreased fertility was seen in hens following dietary administration equal to 78 mg/kg.
Eye irritation/corrosion	Severe eye irritation.
Inhalation	No data is available on the product itself.
LD50 - Rabbit (Dermal)	> 2,000 mg/kg, Method : Estimated.
LD50 - Rat (Ingestion)	> 2,000 mg/kg
Skin irritation/corrosion	Severe skin irritation. Corrosive to the skin of a rabbit.
Methyl Amyl Ketone(110	
Aspiration hazard Carcinogenicity	May be harmful if swallowed and enters airways. No data available.
LD50 Dermal - (Rat)	>2,000 mg/kg
LD50 Inhalation - (Rat)	>16.7 mg/l (4 h)
LD-50 Oral - (Rat)	1,600 mg/kg
Mutagenicity	In vitro, No data available., In vivo, No data available.
Other adverse effects	No data available.
Repeated dose toxicity	No data available.
Reproductive toxicity	No data available.
Respiratory or skin sensitization	Skin Sensitization:, (Mouse) - non-sensitizing.
Serious eye damage/eye irritation	(Rabbit, 24 h): slight.
Skin	(Rabbit, 24 h): moderate.
corrosion/irritation Specific target organ toxicity - repeated	No data available.
Specific target organ toxicity - single	No data available.
exposure	02.2)
Methyl Ethyl Ketone(78- Aspiration toxicity	93-3) Product: May be harmful if swallowed and enters airways.
Carcinogenicity	Remarks: This information is not available, Carcinogenicity-Assessment: Not classified as a
Carcinogenicity	human carcinogen.

Cth info	Dodget Daniel Comptens of company of the bands by bring the bands by t
Further information	Product Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea
	and vomiting.,
Germ cell mutagenicity	Genotoxicity in vitro: Test Type: Ames test, Metabolic activation: with and without metabolic
1050 (activation, Method OECD Test Guideline 471
LC50 (mouse)	320 mg/l (4 h exposure)
inhalation	
LC50 (rat) Oral	3737 mg/kg
LD50 (rabbit) dermal	6,480 mg/kg
Reproductive toxicity	Effects on fetal development, Species: rat female, Application Route: Inhalation, Dose: 400,
	1000, 3000 ppm,
Respiratory or skin	Test Type: Buehler Test, Species guinea pig, Method OECD Test Guideline 406, Result: Did not
sensitization	cause sensitization on laboratory animals.
Serious eye damage/	Remarks: Severe skin irritation, Species rabbit, Exposure time 24 h, Result: Irritation to eyes
eye irritation	
Skin	Remarks: Moderate skin irritation, Species rabbit, Exposure time 24 h, Result: Mild skin irritation
corrosion/irritation	
STOT - repeated	Product: No data available, Components: No data available.
exposure	The second secon
STOT - single exposure	Product: Target Organs: Central Nervous system, Components: Exposure routes: Inhalation,
3101 Single exposure	Product: Target Organs: Central Nervous system, Components: Exposure routes: Initiation,
n-Butyl Acetate(123-86-	
Aspiration hazard	No data available.
Carcinogenicity	No data available.
Inhalation	No data available.
LD-50 Dermal -	> 16ml/kg
(Rabbit)	
LD-50 Oral - (Rat)	14,130 mg/kg
Mutagenicity	In vitro: No data available. In vivo: No data available.
Other adverse effects:	No data available.
Repeated dose toxicity	No data available.
Reproductive toxicity	No data available.
Respiratory or skin	Skin Sensitization:, (Guinea Pig) - non-sensitizing.
sensitization	
Serious eye	(Rabbit, 24 h): none
damage/eye irritation	
Skin	(Rabbit, 24 h): none
corrosion/irritation	
Specific target organ	No data available.
toxicity - repeated	The data divalidation
exposure	
Specific target organ	Narcotic effect.
toxicity - single	Narcotte circee.
exposure	
Styrene(100-42-5)	
Irritation / corrosion -	Species: Rabbit; Result: non-irritant; Method: BASF - Test
Eye	Species. Rabbit, Result. Holf initialit, Pietrou. BASI
Irritation / corrosion -	Species: Guinea pig; Result: non-sensitization; Method: OECD Guideline 406.
Sensitization	Species. Guinea pig, Result. Holf-selisitization, Method. OLCD Guideline 400.
Irritation / corrosion -	Species: Rabbit; Result: non-irritant; Method: BASF - Test
	Species, Rabbit, Result: Hon-irritant, Method: DASF - Test
Skin	Net determined
LC50 Dermal - Rat	Not determined
LC50 Inhalation - Rat	Exposure time 4 h; not determined
LD50 Oral - Rat	>5,000 mg/kg
Titanium Dioxide(13463	
Carcinogenicity	In lifetime inhalation studies rats were exposed for 2 years to respectively 10, 50, 250 mg/m3 of
	reparable 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
Sensitization	Did not cause sensitization on laboratory animals.
Skin irritation	slight irritation
	1 3

12. ECOLOGICAL INFORMATION

Aluminum Hydroxide(21645-51-2)		
Bioaccumulative	Inert material.	
potential		

EC50 - 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	>10,000 mg/i, Fish
Mobility in soil	Inert material.
NOEC - Toxicity to	>0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201)
algae	
Other adverse effects	None known.
Persistence and	Non-degradable
degradability Amorphous Silica(7631-	 86-9)
Additional ecological	General notes: Do not allow product to reach ground water, water course or sewage system.
information	g,
Bioaccumulative	No further relevant information available.
potential	> 10000 mg/L/Coopedomous submissibles (73 h) (OCED 201) comparable substance
EC50 - Algae EC50 - Daphnia magna	>10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance >1000 mg/l (Daphnia magna) (24 h) (OCED 202)
LCO - Zebra fish	10000 mg/l (zebra fish) (96 h) (static) (OCED203)
Mobility in soil	No further relevant information available.
Persistence and	The product is chemically and biologically inert. By the insolubility in water there is a separation
degradability	at every filtration and sedimentation process.
Carbon Black(1333-86-4	4)
Behavior in water	Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test)
treatment plants Bioaccumulation	Potential bioaccumulation is not expected because of the physicochemical properties of the
Potential	substance
EC50 (Scenedesmus	> 10,000 mg/L, OECD (Guideline 201)
subspicatus)	
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	>1000 mg/l (96 h) OECD (Guideline 203)
(zebrafish)	1 2000 mg/, (50 m/ 5202 (50.00mm 200)
NOEC 50	> 10,000 mg/L, OECD (Guideline 201)
(Scenedesmus	
subspicatus) Dibutyltin Dilaurate(77-5	50.7)
Aquatic toxicity	No data is available on the product itself.
Bioaccumulation	No data is available on the product itself.
EC50 - Daphnia	2.28 mg/l, Species : Daphnia magna.
LC50 - Fish	2 mg/l, Species : Fish.
Mobility	No data available.
Persistence and	Biodegradability: No data is available on the product itself.
degradability	No data available
Toxicity to other organisms	No data available.
Methyl Amyl Ketone(110	l 0-43-0)
Aquatic invertebrates	No data available.
Bioaccumulative	No data available.
potential	
Chronic Toxicity (Fish)	No data available.
ErC50 (Selenastrum capricornutum)	98.2 mg/l, 72 h
LC50 (Fathead	131 mg/l , (96 h)
Minnow) Acute toxicity	
Mobility in soil	No data available.
Persistence and	69 % (28 d, Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)). Biological
degradability	Oxygen Demand BOD-5: 1,770 mg/g BOD-20: 2,000 mg/g , Chemical Oxygen Demand: 2,420
Results of PBT and	mg/g, BOD/COD ratio No data available. No data available.
vPvB assessment	INU UALA AVAIIADIE.
Methyl Ethyl Ketone(78-	93-3)
Methyl Ethyl Ketone(78- Bioaccumulative	93-3) Partition coefficient: n-octanol/water: log Pow: 2.49

potential	
EC50 (Algae)	2029 mg/l (48 h; Psedokirchneriella subcapitata (Green Algee))
EC50 (Daphnia)	308 mg/l (48 h; Daphnia magna (Water flea))
LC50 (fish)	2993 mg/l (96 h; Pimephales promelas (Fathead minnow))
Mobility in soil	No data available
Other adverse effects	No data available
Persistence and	Biodegradability: Concentration: 2mg/l; Result: Readily biodegradation: 98%; Exposure 28 d;
degradability	Biodeg. dadbiity. Content attom. 2119717 resoluti reddiiry biodeg. dadtion. 30707 Exposure 20 dy
Product	Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA
	Section 602 Class 1 Substances:
n-Butyl Acetate(123-86-	
Bioaccumulative	No data available.
potential	
Chronic Toxicity	Fish: No data available. Aquatic invertebrates: No data available. Toxicity to Aquatic Plants: No
	data available.
LC-50 (Fathead	18 mg/l, (96 h)
Minnow) Acute Toxicity	
LC-50 (Water Flea)	44 mg/l , (48 h)
Aquatic invertebrates	
Mobility in soil	Known or predicted distribution to environmental compartments: No data available.
Other adverse effects	No data available.
Persistence and	83 % (28 d), Biological Oxygen Demand:BOD-5: 730 mg/g, Chemical Oxygen Demand:1,010
degradability	mg/g, BOD/COD ratio:72 %.
Results of PBT and	No data available.
vPvB assessment	
Styrene(100-42-5)	
Bioaccumulation	At present state of knowledge, no negative ecological effects are expected.
Chronic	No data available regarding toxicity to daphnids.
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 antiquated
	when introduced to biological treatment plants in appropriate low concentrations.
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: Dispose of waste and residues in accordance with Local, State, and Federal Regulations. Mix with compatible chemical which is less flammable and incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind or weld or near this container.

14. TRANSPORT INFORMATION

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

USDOT GROUND

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME (DOT): Paint, flammable liquid

HAZARDS CLASS: 3 UN/NA NUMBER: UN1263 PACKING GROUP: PG II

EMERGENCY RESPONSE GUIDE (ERG): 128

IATA (AIR)

DOT (INTERNATIONAL AIR TRANSPORTATION ASSOCIATION)

PROPER SHIPPING NAME: Paint, flammable liquid

HAZARDS CLASS: 3 UN/NA NUMBER: UN1263 PACKING GROUP: PG II

EMERGENCY RESPONSE GUIDE (ERG): 128

IMDG (OCEAN)

PROPER SHIPPING NAME: Paint, flammable liquid

HAZARDS CLASS: 3 UN/NA NUMBER: UN1263 PACKING GROUP: PG II

EMERGENCY RESPONSE GUIDE (ERG): 128

MARINE POLLUTANT: No

SPECIAL PRECAUTIONS: P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. 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#
Methyl Ethyl Ketone	78-93-3
Carbon Black	1333-86-4
n-Butyl Acetate	123-86-4

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	
n-Butyl Acetate	123-86-4	
^Methyl Amyl Ketone	110-43-0	
Methyl Ethyl Ketone	78-93-3	
^Amorphous Silica	7631-86-9	
^Carbon Black	1333-86-4	

CLEAN AIR ACT:

This product contains:	Chemical CAS#
Styrene	100-42-5

INTERNATIONAL REGULATIONS

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

Flam. Liq. 2 H226 Eye Irrit. 2 H319 STOT SE 3 H336

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 (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#
Methyl Amyl Ketone	110-43-0
Methyl Ethyl Ketone	78-93-3
Carbon Black	1333-86-4
n-Butyl Acetate	123-86-4

Pennsylvania Right to Know

This product contains	Chemical CAS#
Titanium Dioxide	13463-67-7
Methyl Amyl Ketone	110-43-0
Methyl Ethyl Ketone	78-93-3
Amorphous Silica	7631-86-9
Carbon Black	1333-86-4
Aluminum Hydroxide	21645-51-2
n-Butyl Acetate	123-86-4
Dibutyltin Dilaurate	77-58-7

New Jersey Right to Know

This product contains	Chemical CAS#
Titanium Dioxide	13463-67-7
Methyl Amyl Ketone	110-43-0
Methyl Ethyl Ketone	78-93-3
Amorphous Silica	7631-86-9
Carbon Black	1333-86-4
Aluminum Hydroxide	21645-51-2
n-Butyl Acetate	123-86-4
Dibutyltin Dilaurate	77-58-7

16. OTHER INFORMATION

Other Product Information

% Volatile by Volume: 50.51 % Volatile by Weight: 29.98 % Solids by volume: 49.49 % Solids by Weight: 70.02

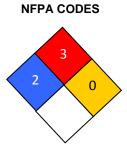
% Exempt by Volume: 0.00 % Exempt by Weight: 0.00

VOC CONTENT: Excluding Exempt VOC: 432

Including Exempt VOC: 432

HMIS RATING

Health :	2*
Flammability :	3
Reactivity:	0
Personal Protection:	F



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