SAFETY DATA SHEET



 DATE ISSUED :
 10/9/2015

 SDS REF. No :
 4000 SERIES

4000 SERIES AIR DRY ENAMEL

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 4000 SRERIES AIR DRY ENAMEL

PRODUCT CODE: 4000 SERIES

PRODUCT USE: Industrial Waterborne Paint

MANUFACTURER

Cardinal Industrial Finishes

1329 Potrero Ave

S. El Monte, CA, 626 444-9274

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

Transportation)
WEB: WWW.CARDINALPAINT.COM

2. HAZARDS IDENTIFICATION

PICTOGRAMS



SIGNAL WORD: WARNING

HAZARD STATEMENTS: 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 of in accordance with Local, Regional, State, Federal, and International Regulations.

R40 Limited evidence of a carcinogenic effect.

S36 Wear suitable protective clothing.

S37 Wear suitable gloves.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
Ethylene glycol mono butyl ether	5% - 10%	111-76-2
sec-Butyl Alcohol	1% - 5%	78-92-2
Isobutyl Alcohol	1% - 5%	78-83-1

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

2-Ethylhexanoic acid(149-57-5)				
USA ACGIH	ACGI(TLV) RWA	5 mg/m3,		
Aluminum Hydroxide(21645-51-2)				
USA ACGIH	ACGIH (TLV) TWA	10 mg/m3 (Total dust), 3 mg/m3 (Respirable fraction)		
USA OSHA	OSHA (PEL) TWA	15 mg/m3 (Tptal dust), 5 mg/m3 (Respirable fraction)		
Butyl Alcohol(71-36-3)				
USA ACGIH	ACGIH (TLV) TWA	20 ppm		
USA NIOSH	NIOSH (REL) C	50 ppm, 150 mg/m3		
USA OSHA	OSHA (OEL) TWA Table Z-1	100 ppm, 300 mg/m3		
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		
Ethylene glycol mono butyl ether(111-76				
USA ACGIH	ACGIH TWA (ppm)	20 ppm		
USA NIOSH	NIOSH REL (ppm)	5 ppm		
USA OSHA	OSHA PO TWA (ppm)	25 ppm		
USA OSHA	OSHA TABLE Z-1 TWA (mg/m3)	50 ppm, 240 mg/m3		
Ethylene Glycol(107-21-1)				
USA ACGIH	ACGIH (C)	100 mg/m3		
USA ACGIH	ACGIH (C) (Aerosol only)	100 mg/m3		
USA OSHA	OSHA PO (TLV-C)	50 ppm, 125 mg/m3		
Isobutyl Alcohol(78-83-1)				
USA ACGIH	ACGIH TWA	50 ppm		
USA OSHA	OSHA PEL	100 ppm, 300 mg/m3		
	sec-Butyl Alcohol(78-92-2)			
USA ACGIH	ACGIH (TLV) TWA	100 ppm		
USA NIOSH	NIOSH (REL) ST	150 ppm, 455 mg/m3		
USA NIOSH	NIOSH (REL)TWA	100 ppm, 305 mg/m3		
USA OSHA	OSHA (OEL) TWA Table Z-1	150 ppm, 450 mg/m3		
Titanium Dioxide(13463-67-7)				
PEL (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 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	:	208.0 deg F TO 387.0 Deg F
Flash point	:	120.00 deg F
Lower explosion limit	:	1.1
Upper explosion limit	:	10.9
Vapor pressure	:	185 mm Hg
Vapor density	:	Heavier than air
Relative density	:	No data available.
Density	:	10.4604
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

LD50 Oral - Rat - Acute toxicity 2-Ethylhexanoic acid(149-57-5) Additional Information RTECS: MO7700000 To the best of our knowledge, the chem properties have not been thoroughly investigated. Stomach -	
2-Ethylhexanoic acid(149-57-5) Additional Information RTECS: MO7700000 To the best of our knowledge, the chem	
Additional Information RTECS: MO7700000 To the best of our knowledge, the chem	
Evidence Stomach - Irregularities - Based on Human Evidence	- Irregularities - Based on Human
Aspiration hazard No data available.	
Carcinogenicity IARC: No component of this product present at levels greater as probable, possible or confirmed human carcinogen by IAR product present at levels greater than or equal to 0.1% is idearcinogen by ACGIH. NTP: No component of this product proto 0.1% is identified as a known or anticipated carcinogen by product present at levels greater than or equal to 0.1% is idearcinogen by OSHA.	CC. ACGIH: No component of this entified as a carcinogen or potential esent at levels greater than or equal y NTP. OSHA: No component of this
Germ cell mutagenicity Human lymphocyte Sister chromatic exchange	
Inhalation No data available.	
LD50 Dermal - Rabbit 1,142 mg/kg, Dermal, Rabbit	
LD50 Oral - Rat - Acute 3,000 mg/kg, Oral, Rat toxicity	
Reproductive toxicity Suspected human reproductive toxicant no data available no Toxicity - rat - Oral Effects on Embryo or Fetus: Fetotoxicity Developmental Toxicity - rat - Oral Specific Developmental Asystem. Specific Developmental Abnormalities: Cardiovascula Developmental Abnormalities: Urogenital system.	(except death, e.g., stunted fetus). Abnormalities: Musculoskeletal
Respiratory or skin No data available. sensitization	
Serious eye damage/eye irritation Eyes - rabbit Result: Severe eye irritation	
Skin No data available. corrosion/irritation	
Specific target organ toxicity - repeated exposure No data available.	
Specific target organ No data available.	

toxicity - single	
exposure	
Aluminum Hydroxide(21	
Additional Information	RTECS: BD0940000 Nausea, Vomiting, and Constipation.
Aspiration hazard	No data available.
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 -	>5,000 mg/kg, Oral - Rat - female
female - Acute toxicity	
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)
corrosion/irritation	
Specific target organ toxicity - repeated exposure	No data available.
Specific target organ	No data available.
toxicity - single	ivo data available.
exposure Amorphous Silica(7631-8	 86-01
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 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)
LC0 - Inhalative	>140->2000 mg/m3 / 4 h (Rat) (OCED 403)
LD50 - Dermal - Rabbit	>5000 mg/kg (Rabbit)
LD50 - Oral - Rat	>5000 mg/kg (Rat) (OECD 401)
Other information - Oral	=> 1340 mg/kg/day
Sensitization	Not sensitizating (guinea pig) (OCED 406)
Butyl Alcohol(71-36-3)	
Additional Information	RTECS: E01400000 drying, cracking of the skin, Skin irritation To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence
Aspiration hazard	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Germ cell mutagenicity	No data available
LC50 Inhalation Rat	8,000 ppm, Rat, 4 h
LD50 Dermal - Rabbit	3,400 mg/kg
LD50 Oral - Rat - Acute Toxicity	790 mg/kg, Liver:Fatty liver degeneration. Kidney, Urethra, Bladder:Other changes. Blood:Other changes.
Reproductively toxicity	No data available
Respiratory or skin sensitsation	No data available
Serious Eye Damage and Irritation	Serious eye damage,eye irritation Eyes - Rabbit Result: Blindness (OECD Test Guideline 405)
Skin corrosion/irritation	Rabbit Result: Skin irritation - 24 h
Specific target organ toxicity - repeated exposure	No data available

Specific target organ toxicity - single exposure	May cause respiratory irritation. May cause drowsiness or dizziness
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 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. A recent U.S. respiratory morbidity study suggested a 27 mL decline in FEV1 from a 1 mg/m3 (inhalable fraction) exposure over a 40-year period. An older European investigation suggested an exposure to 1 mg/m3 (inhalable fraction) of carbon black over a 40-year working-lifetime will result in a 48 mL decline in FEV1. In contrast, normal age related decline over a similar period of time would be approximately 1200 ml. The relationship between symptoms and exposure to carbon black is less clear. In the U.S. study, 9% of the highest exposure group (in contrast to 5% of the unexposed group) reported symptoms consistent with chronic bronchitis. In the European study, methodological limitations in the administration of the questionnaire limit the drawing of definitive conclusions about symptoms.
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).
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 Germ Cell Mutagenicity	In an experimental investigation, mutational changes in the hprt gene were reported in alveolar 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 genotoxic effect and thus, carbon black itself would not be considered to be mutagenic. Carbon black is not suitable to be tested in bacterial (Ames test) and other in vitro systems because of its insolubility in aqueous solutions. When tested, however, results for carbon black showed no mutagenic effects. Organic solvent extracts of carbon black can, however, contain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the bioavailability of these PAHs showed that PAHs are very tightly bound to carbon black and not bioavailable.
NIOSH	NIOSH The U.S. National Institute of Occupational Safety and Health (NIOSH) 1978 criteria document on carbon black recommends that only carbon blacks with PAH contaminant levels greater than 0.1% require the measurement of PAHs in air. As some PAHs are possible human carcinogens, NIOSH recommends an exposure limit of 0.1 mg/m3 for PAHs in air, measured as the cyclohexane-extractable fraction.

	NTP 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). No experimental studies on effects of carbon black on fertility and reproduction have been
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	located. However, based on toxicokinetic data, carbon black is deposited in the lungs and based
	on its specific physicochemical properties (insolubility, low absorption potential), it is not likely to
	distribute in the body to reach reproductive organs, embryo and/or foetus under in vivo
	conditions. Therefore, no adverse effects of carbon black to fertility/reproduction or to foetal
	development are expected. No effects have been reported in long-term animal studies.
	No animal data is available. No cases in humans have been reported.
1	Therefore, no STOT, Repeated exposure classification is made.
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
Ethylene glycol mono buty	
	Remarks: No data available.
	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
	carcinogenicity in animal studies
	Product Remarks: Symptoms of overexposure may be headache, diaainess, titedness, nausea
	and vomiting.,
	Genotoxicity in vitro: Test Type: Mammalian cell gene mutation assay; Test species: Chineese
	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.
	Acute toxicity estimate: 500 mg/kg; Method: Expert judgment.; Assessment: the
	component/mixture is moderately toxic after single ingestion.
	Acute toxicity estimate: 1,1000 mg/kg; Method: Expert judgment; Assessment: the
	component/mixture is moderately toxic after single contact with skin.
Repeated dose toxicity 5	Species: rat NOAEL: 30, Application Route: Inhalation Exposure time: 14 wk Number of
	exposures: 6 h/d, 5 d/wk.
Reproductive toxicity	Effects on fertility: Test Type: Two-generation study Species: mouse Application Route: oral
	Fertility: NOAEL: 720 mg/kg body weight Symptoms: Reduced fertility Result: Reduced fertility
	at maternally toxic doses Effects on fetal development : Test Type: Embryo-fetal development
	Species: rat Application Route: Inhalation Duration of Single Treatment: 10 d Frequency of
9	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm
-	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity -
<u> </u>	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
	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments
Respiratory or skin	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on
Respiratory or skin sensitsation	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals.
Respiratory or skin sensitsation I Serious eye damage/	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on
Respiratory or skin sensitsation I Serious eye damage/ eye irritation	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes.
Respiratory or skin sensitsation I Serious eye damage/ eye irritation Skin I Skin	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h,
Respiratory or skin sensitsation I Serious eye damage/ eye irritation Skin corrosion/irritation I	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation
Respiratory or skin sensitsation I Serious eye damage/ eye irritation Skin corrosion/irritation I STOT - repeated I	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h,
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available.
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available.
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1)	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available.
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No aspiration toxicity classification.
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No data available. No aspiration toxicity classification. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40,
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No aspiration toxicity classification. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity -
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No aspiration toxicity classification. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity - Assessment: Not classified as a human carcinogen.
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No data available. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity - Assessment: Not classified as a human carcinogen. Remarks: No data available.
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity Further information Germ cell mutagenicity	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No data available. No aspiration toxicity classification. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity - Assessment: Not classified as a human carcinogen. Remarks: No data available. Test Type: Ames test, Metabolic activation: with and without activation, Method OECD Test
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin Incorrosion/irritation STOT - repeated exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity Further information Germ cell mutagenicity	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No data available. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity - Assessment: Not classified as a human carcinogen. Remarks: No data available. Test Type: Ames test, Metabolic activation: with and without activation, Method OECD Test Guideline 471, Result: negative, GLP: yes.
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin Incorrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity Further information Germ cell mutagenicity	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No data available. No aspiration toxicity classification. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity - Assessment: Not classified as a human carcinogen. Remarks: No data available. Test Type: Ames test, Metabolic activation: with and without activation, Method OECD Test Guideline 471, Result: negative, GLP: yes. > 2.5 mg/l, Exposure time: 6 h, Test atmosphere: dust/mist. Assessment: The substance or
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity Superior Carcinogenicity	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No aspiration toxicity classification. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity - Assessment: Not classified as a human carcinogen. Remarks: No data available. Test Type: Ames test, Metabolic activation: with and without activation, Method OECD Test Guideline 471, Result: negative, GLP: yes. > 2.5 mg/l, Exposure time: 6 h, Test atmosphere: dust/mist. Assessment: The substance or mixture has no acute inhalation toxicity.
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin Incorrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity Further information Germ cell mutagenicity LC50 Inhalation Toxicity - (Rat) LD50 Dermal Toxicity	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No data available. No aspiration toxicity classification. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity - Assessment: Not classified as a human carcinogen. Remarks: No data available. Test Type: Ames test, Metabolic activation: with and without activation, Method OECD Test Guideline 471, Result: negative, GLP: yes. > 2.5 mg/l, Exposure time: 6 h, Test atmosphere: dust/mist. Assessment: The substance or
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity Store Carcinogenicity Carcinogenicity Carcinogenicity Store Carcinogenicity Carcinogenic	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No data available. No aspiration toxicity classification. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity - Assessment: Not classified as a human carcinogen. Remarks: No data available. Test Type: Ames test, Metabolic activation: with and without activation, Method OECD Test Guideline 471, Result: negative, GLP: yes. > 2.5 mg/l, Exposure time: 6 h, Test atmosphere: dust/mist. Assessment: The substance or mixture has no acute inhalation toxicity. > 3,500 mg/kg, Assessment: The substance or mixture has no acute dermal toxicity.
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity Stutter information Germ cell mutagenicity CC50 Inhalation Toxicity - (Rat) LD50 Dermal Toxicity (Mouse) LD50 Oral - Rat Acute Communication CC50 Inhalation	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No aspiration toxicity classification. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity - Assessment: Not classified as a human carcinogen. Remarks: No data available. Test Type: Ames test, Metabolic activation: with and without activation, Method OECD Test Guideline 471, Result: negative, GLP: yes. > 2.5 mg/l, Exposure time: 6 h, Test atmosphere: dust/mist. Assessment: The substance or mixture has no acute inhalation toxicity.
Respiratory or skin sensitsation Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - single exposure Ethylene Glycol(107-21-1) Aspiration hazard Carcinogenicity Sturther information Germ cell mutagenicity CC50 Inhalation Toxicity - (Rat) LD50 Dermal Toxicity (Mouse) LD50 Oral - Rat Acute toxicity Standard Carcinogenicity CC50 Inhalation CO50 Inhalat	Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals. Species rabbit, Exposure time 24 h, Result: Irritating to eyes. Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation No data available. No data available. No data available. No aspiration toxicity classification. Species: mouse, (male, female), Application Route: Oral, Exposure time: 24 mths, Dose: 0, 40, 200, 1000 mg/kg, daily, LOAEL: 1,000 mg/kg, Result: Ambiguous., Carcinogenicity - Assessment: Not classified as a human carcinogen. Remarks: No data available. Test Type: Ames test, Metabolic activation: with and without activation, Method OECD Test Guideline 471, Result: negative, GLP: yes. > 2.5 mg/l, Exposure time: 6 h, Test atmosphere: dust/mist. Assessment: The substance or mixture has no acute inhalation toxicity. > 3,500 mg/kg, Assessment: The substance or mixture has no acute dermal toxicity.

Respiratory or skin sensitization	Test Type: Maximization Test (GPMT), Species: guinea pig, Result: Did not cause sensitsation on laboratory animals.
Serious eye	Species: rabbit, Result: No eye irritation, Exposure time 24 h, Method: In vivo.
damage/eye irritation Skin	Skin - Rabbit Result, Exposure time: 20 h, Method: In vivo, Result: No skin irritation.
corrosion/irritation Specific target organ	Oral - May cause damage to organs through prolonged or repeated exposure Kidney
toxicity - repeated exposure	oral Play cause dumage to organs through prolonged of repeated exposure. Kidney
Specific target organ	No data available.
toxicity - single exposure	
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.
Naphthenic Acids(1338-	
Additional Information	Repeated dose toxicity - rat - female - Oral - No observed adverse effect level - 6 mg/kg -
	Lowest observed adverse effect level - 60 mg/kg RTECS: QK8750000 To the best of our
	knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Aspiration Hazard Carcinogenicity	No Data Available 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
Germ Cell Mutagenicity	No Data Available
Inhalation	No Data Available
LD50 Dermal Rabbit (male and female) Acute Toxicity	2,000 mg/kg
LD50 Oral Rat Acute Toxicity	3,000 mg/kb kg Remarks: Behavioral: Food intake (animal). Diarrhea Gastrointestinal: Other changes.
Reproductive Toxicity	No Data Available
Respiratory or Skin	Maximization Test - guinea pig Result: May cause sensitization by skin contact. (OECD Test
Sensitization Serious Eye	Guideline 406) No Data Available
Damage/Eye Irritation	No Data Available
Skin Corrosion/Irritation	Skin - rabbit Result: Irritating to skin 24 h (OECD Test Guideline 404)
Specific Target Organ	No Data Available
Toxicity - Repeated	
Exposure	N. B. A. W. I.
Specific Target Organ Toxicity - Single	No Data Available
Exposure sec-Butyl Alcohol(78-92-	
Additional Information	Nausea, Dizziness, Headache, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Aspiration hazard	No data available.
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this

	product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Germ cell mutagenicity	No data available.
LD50 Dermal - Rat	> 2,000 mg/kg
LD50 Oral - Rat - Acute	2,193 mg/kg, Remarks: Behavioral: Somnolence (general depressed activity). Behavioral:
toxicity	Ataxia. Behavioral: Coma.
Reproductive toxicity	Reproductive toxicity - Rat - Inhalation Effects on Fertility: Post-implantation mortality (e.g., dead and/or reabsorbed implants per total number of implants). Effects on Embryo or Fetus: Fetal death. Specific Developmental Abnormalities: Musculoskeletal system. No data available Developmental Toxicity - Rat - Inhalation Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
Respiratory or skin sensitization	No data available.
Serious eye	No data available.
damage/eye irritation	
Skin	No data available.
corrosion/irritation	
Specific target organ	No data available.
toxicity - repeated	
exposure	
Specific target organ	May cause respiratory irritation. May cause drowsiness or dizziness.
toxicity - single exposure	
Titanium Dioxide(13463	
Carcinogenicity	In lifetime inhalation studies rats were exposed for 2 years to respectively 10, 50, 250 mg/m3 of
	respirable TiO2.
Dermal ALD (rabbit)	>10000 mg/m3
Eye irritation	slight irritation
Inhalation 4 h ALC	>6.82 mg/l
ORAL ALD (rat)	>2400 mg/kg
Sensitsation	Did not cause sensitsation on laboratory animals.
Skin irritation	slight irritation

12. ECOLOGICAL INFORMATION

2-Ethylhexanoic acid(149	9-57-5)
Bioaccumulative	No data available.
potential	
Mobility in soil	No data available.
Other adverse effects	No data available.
Persistence and	No data available.
degradability	
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
vPvB assessment	
Toxicity	No data available.
Aluminum Hydroxide(21	
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	Though markenial
Mobility in soil	Inert material.
NOEC - Toxicity to algae	>0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201)
Other adverse effects	None known.
Persistence and	Non-degradable
degradability	Non-degradable
Amorphous Silica(7631-8	86-9)
Additional ecological	General notes: Do not allow product to reach ground water, water course or sewage system.
information	
Bioaccumulative	No further relevant information available.
potential	
EC50 - Algae	>10000 mg/l (Scenedesmus subspicatus) (72 h) (OCED 201) comparable substance
EC50 - Daphnia magna	>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 seperstion
degrability	at every filtration and sedimentation process.
Butyl Alcohol(71-36-3)	
Bioaccumulative	Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 24 h - 921 mg/l
potential	Disacted material my material my mass (ramboth croup)
EC50 Daphnia magna	1,983 mg/l - 48 h Daphnia magna (Water Flea)
	1,363 High - 46 II Dapillia Hagha (Water Flea)
Toxicity to Daphnia	
and other aquatic	
invertebrates	
LC50 Pimephales	1,840 mg/l - 96 h, Pimephales promelas (fathead minnow)
promelas - toxicity to	
fish	
Mobility in Soil	No data available
Other adverse effects	No data available
Persistence and	No data available
degradability	No data available
	DDT (-D-D
Result of PBT and vPvB	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
assessment not	
required/not conducted	
Carbon Black(1333-86-4	
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	>5600 mg/l (24 h) OECD (Guideline 202)
(waterflea)	
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)
ECSO Bracily darlie rele	
(zebrafish)	
(zebrafish) NOEC 50	> 10,000 mg/L, OECD (Guideline 201)
(zebrafish) NOEC 50 (Scenedesmus	
(zebrafish) NOEC 50 (Scenedesmus subspicatus)	> 10,000 mg/L, OECD (Guideline 201)
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono bu	> 10,000 mg/L, OECD (Guideline 201) utyl ether(111-76-2)
(zebrafish) NOEC 50 (Scenedesmus subspicatus)	> 10,000 mg/L, OECD (Guideline 201)
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono bu	> 10,000 mg/L, OECD (Guideline 201) utyl ether(111-76-2)
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono but Bioaccumulative potential	> 10,000 mg/L, OECD (Guideline 201) Ityl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono bu	> 10,000 mg/L, OECD (Guideline 201) Ityl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83 911 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring:
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono but Bioaccumulative potential EC50 (Algae)	> 10,000 mg/L, OECD (Guideline 201) Ityl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83 911 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: no
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono but Bioaccumulative potential	> 10,000 mg/L, OECD (Guideline 201) Ityl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83 911 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
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono but Bioaccumulative potential EC50 (Algae) EC50 (Daphnia)	> 10,000 mg/L, OECD (Guideline 201) Ityl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83 911 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 202 GLP: no
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono but Bioaccumulative potential EC50 (Algae)	> 10,000 mg/L, OECD (Guideline 201) Ityl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83 911 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
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono but Bioaccumulative potential EC50 (Algae) EC50 (Daphnia)	> 10,000 mg/L, OECD (Guideline 201) Ityl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83 911 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 202 GLP: no
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono buto Bioaccumulative potential EC50 (Algae) EC50 (Daphnia) LC50 (fish)	> 10,000 mg/L, OECD (Guideline 201) Ityl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83 911 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 202 GLP: no 1,474 mg/l Pimephales promelas (Fathead minnow))Exposure time: 96 h Test Type: static test,
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono buto Bioaccumulative potential EC50 (Algae) EC50 (Daphnia) LC50 (fish) Mobility in soil	> 10,000 mg/L, OECD (Guideline 201) Ityl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83 911 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 202 GLP: no 1,474 mg/l Pimephales promelas (Fathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no No data available
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono buto Bioaccumulative potential EC50 (Algae) EC50 (Daphnia) LC50 (fish) Mobility in soil Other adverse effects	> 10,000 mg/L, OECD (Guideline 201) Ityl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83 911 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 202 GLP: no 1,474 mg/l Pimephales promelas (Fathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no No data available No data available
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(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono buto Bioaccumulative potential EC50 (Algae) EC50 (Daphnia) LC50 (fish) Mobility in soil Other adverse effects Persistence and degradability	> 10,000 mg/L, OECD (Guideline 201) Ityl ether(111-76-2) Partition coefficient: n-octanol/water: log Pow: 0.83 911 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 202 GLP: no 1,474 mg/l Pimephales promelas (Fathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no No data available No data available 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
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(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono buto Bioaccumulative potential EC50 (Algae) EC50 (Daphnia) LC50 (fish) Mobility in soil Other adverse effects Persistence and degradability Product Ethylene Glycol(107-21-LC50 Toxicity to daphnia and other aquatic invertebrates LC50 Toxicity to fish Mobility in soil Other adverse effects Persistence and degradability Results of PBT and	> 10,000 mg/L, OECD (Guideline 201) Partition coefficient: n-octanol/water: log Pow: 0.83 911 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 202 GLP: no 1,474 mg/l Pimephales promelas (Fathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no No data available No data available 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 Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances: 1) > 100 mg/l (Daphnia magna (water flea)), Exposure time 48 h, Test type: static test, Method: OECD Test Guideline 202, GLP: yes. 100 mg/l (Pimephales promelas (fathead minnow)): Exposure time: 96 h, Test Type: static test No data available. No data available. No data available. Aerobic, Inoculum: Activated sludge, domestic, adaption not specified, Biodegradation: 90-100%, Exposure time 10 d, GLP: yes, Remarks: Readily biodegradable.
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono buto Bioaccumulative potential EC50 (Algae) EC50 (Daphnia) LC50 (fish) Mobility in soil Other adverse effects Persistence and degradability Product Ethylene Glycol(107-21-LC50 Toxicity to daphnia and other aquatic invertebrates LC50 Toxicity to fish Mobility in soil Other adverse effects Persistence and degradability Results of PBT and vPvB assessment	> 10,000 mg/L, OECD (Guideline 201) Partition coefficient: n-octanol/water: log Pow: 0.83 911 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 202 GLP: no 1,474 mg/l Pimephales promelas (Fathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no No data available 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 Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances: 1) >100 mg/l (Daphnia magna (water flea)), Exposure time 48 h, Test type: static test, Method: OECD Test Guideline 202, GLP: yes. 100 mg/l (Pimephales promelas (fathead minnow)): Exposure time: 96 h, Test Type: static test No data available. No data available. Aerobic, Inoculum: Activated sludge, domestic, adaption not specified, Biodegradation: 90-100%, Exposure time 10 d, GLP: yes, Remarks: Readily biodegradable. PBT/PVB assessment not available >100 mg/l (Pseudokirchneriella subcapitata (Selenastrum capricornutum)), Exposure time 96 h,
(zebrafish) NOEC 50 (Scenedesmus subspicatus) Ethylene glycol mono buto Bioaccumulative potential EC50 (Algae) EC50 (Daphnia) LC50 (fish) Mobility in soil Other adverse effects Persistence and degradability Product Ethylene Glycol(107-21-LC50 Toxicity to daphnia and other aquatic invertebrates LC50 Toxicity to fish Mobility in soil Other adverse effects Persistence and degradability Results of PBT and vPvB assessment	> 10,000 mg/L, OECD (Guideline 201) Partition coefficient: n-octanol/water: log Pow: 0.83 911 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 202 GLP: no 1,474 mg/l Pimephales promelas (Fathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no No data available

Isobutyl Alcohol(78-83-1	
Chronic	No data available.
Degradability /	Evaluation: Not readily biodegradable (by OECD criteria).
Persistence; Biological	
/ A biological	
Degradation	
EC50 - Aquatic Plants	>100 mg/l (72 h) The product has not been tested. The statement has been derived from
	properties of the individual components.
EC50 - Daphnia - Acute	>100 mg/l (48 h) The product has not been tested. The statement has been derived from
	properties of the individual components.
LC50 - Fish - Acute	>100 mg/l (96 h) The product has not been tested. The statement has been derived from
	properties of the individual components.
Microorganisms	Toxicity to microorganisms: bacteria EC10 (17 h): >750 mg/l. The product has not been tested.
	The statement has been derived from properties of the individual components.
Naphthenic Acids(1338-2	24-5)
Bioaccumulative	No Data Available
Potential	
LC50 Danio (Zebra	16.3 mg/l - 96 h Toxicity to Fish
Fish) 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.
other haverse Enects	Harmful to aquatic life. no data available
Persistence and	No Data Available
Degradability	No Butta / Wallable
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
vPvB assessment	TBT/VI VB dissessment not available as chemical surety dissessment not required/not conducted
sec-Butyl Alcohol(78-92-	-2)
Bioaccumulative	No data available.
potential	No data avallable.
EC100 - Daphnia	5,000 mg/l, 24 h, Daphnia magna (Water flea)
magna	3,000 High, 24 II, Dapilila Hagha (Water Hea)
EC50 - Daphnia magna	4,427 mg/l, 48 h, Daphnia magna (Water flea)
- Toxicity to daphnia	4,427 mg/i, 46 m, Dapinila magna (water nea)
and other aquatic	
invertebrates	
LC50 - Pimephales	3,670 mg/l, 96 h, Pimephales promelas (fathead minnow)
	3,670 mg/i, 96 m, Pimephales prometas (fathead milliow)
promelas - Toxicity to	
fish Mobility Soil	No data available
	No data available.
Other adverse effects	No data available.
Persistence and	No data available.
degrability	
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
vPvB assessment	
Titanium Dioxide(13463-	
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): Combustible Liquid, n.o.s. (sec-Butyl. Alcohol, n-Propoxypropanol)

HAZARDS CLASS: Combustible Liquid

UN/NA NUMBER: NA1993
PACKING GROUP: PG III

EMERGENCY RESPONSE GUIDE (ERG): 128

IATA (AIR)

DOT (INTERNATIONAL AIR TRANSPORTATION ASSOCIATION)

PROPER SHIPPING NAME: Paint

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

EMERGENCY RESPONSE GUIDE (ERG): 128

IMDG (OCEAN)

PROPER SHIPPING NAME: Paint

HAZARDS CLASS: 3.3 **UN/NA NUMBER: UN1263** PACKING GROUP: PG III

EMERGENCY RESPONSE GUIDE (ERG): 128

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
Isobutyl Alcohol	78-83-1
Carbon Black	1333-86-4
Ethylene Glycol	107-21-1

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 313:

SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard, And Chronic Health Hazard

This product contains:	Chemical CAS#
Titanium Dioxide	13463-67-7
Ethylene glycol mono butyl ether	111-76-2
sec-Butyl Alcohol	78-92-2
Amorphous Silica	7631-86-9
Isobutyl Alcohol	78-83-1
Carbon Black	1333-86-4

CLEAN AIR ACT:

This product contains:	Chemical CAS#
Ethylene Glycol	107-21-1

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#
#2-Ethylhexanoic acid	149-57-5

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

Massachusetts Right to Know

This product contains	Chemical CAS#
Ethylene glycol mono butyl ether	111-76-2
sec-Butyl Alcohol	78-92-2
Isobutyl Alcohol	78-83-1
Carbon Black	1333-86-4
Ethylene Glycol	107-21-1
Butyl Alcohol	71-36-3
Naphthenic Acids	1338-24-5

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
sec-Butyl Alcohol	78-92-2
Amorphous Silica	7631-86-9
Aluminum Hydroxide	21645-51-2
Isobutyl Alcohol	78-83-1
Carbon Black	1333-86-4
Ethylene Glycol	107-21-1
Butyl Alcohol	71-36-3
2-Ethylhexanoic acid	149-57-5
1,10-Phenanthroline	66-71-7
Naphthenic Acids	1338-24-5

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
sec-Butyl Alcohol	78-92-2
Amorphous Silica	7631-86-9
Aluminum Hydroxide	21645-51-2

[#]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.

Isobutyl Alcohol	78-83-1
Carbon Black	1333-86-4
Ethylene Glycol	107-21-1
Butyl Alcohol	71-36-3
2-Ethylhexanoic acid	149-57-5
1,10-Phenanthroline	66-71-7
Naphthenic Acids	1338-24-5

16. OTHER INFORMATION

Other Product Information

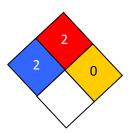
% Volatile by Volume: 69.20 % Volatile by Weight: 53.00 % Solids by volume: 30.80 % Solids by Weight: 47.00 % Exempt by Volume: 51.02 % Exempt by Weight: 40.58

VOC CONTENT: Excluding Exempt VOC: 318 Including Exempt VOC: 156

HMIS RATING

Health :	2
Flammability :	2
Reactivity:	0
Personal Protection:	J

NFPA CODES



MANUFACTURER DISCLAIMER: The information contained in this Safety Data Sheet is considered to be true and accurate. Cardinal Industrial Finishes makes no warranties, expressed or implied, as to the accuracy and adequacy of this information. This data is offered solely for the user's consideration, investigation and verification.