SAFETY DATA SHEET



DATE ISSUED : 6/27/2016 SDS REF. No :

4300 SERIES

4300 SERIES SHORT OIL ALKYD

PRODUCT AND COMPANY IDENTIFICATION 1.

PRODUCT NAME: 4300 SERIES SHORT OIL ALKYD

PRODUCT CODE: 4300 SERIES **PRODUCT USE:** Industrial Solventborne Paint

MANUFACTURER

Cardinal Industrial Finishes 1329 Potrero Ave

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

S. El Monte, CA, 626 444-9274

2. HAZARDS IDENTIFICATION

PICTOGRAMS



SIGNAL WORD : DANGER

HAZARD STATEMENTS :

H226 Flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENTS:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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
Acetic Acid, n-propyl ester	15% - 20%	109-60-4
Methyl Amyl Ketone	5% - 10%	110-43-0

Propyl Alcohol	5% - 10%	71-23-8	
n-Butyl Acetate	5% - 10%	123-86-4	
Amorphous Silica	1% - 5%	7631-86-9	
Xylene	1% - 5%	1330-20-7	
Phenylethane	0.50% - 0.99%	100-41-4	

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 : 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.

ENVIRONMENTAL PRECAUTIONS :

Prevent entry to sewers and public waters.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP :

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

7. HANDLING AND STORAGE

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

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when you are leaving work. Provide good ventilation in process area to prevent formation of vapor. No smoking. Use only non-sparking tools. Use outdoors or in a well ventilated area. Avoid breathing fume, vapors. Hygiene measures: Wash Skin thoroughly after handling.

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

Incompatible products: Strong bases. Strong acids.

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

8. EXPOSURE CONTROLS\PERSONAL PROTECTION

2-Ethylhexanoic acid(149-57-5)		
USA ÁCGIH	ACGI(TLV) RWA	5 mg/m3,
ACETIC ACID, n-propyl ester(109-60-4)	· · · ·	
USA ACGIH	ACGIH (TLV) STEL	250 ppm
USA ACGIH	ACGIH (TLV) TWA	200 ppm
USA NIOSH	NIOSH (REL) ST	250 ppm, 1,050 mg/m3
USA NIOSH	NIOSH (REL) TWA	200 ppm, 840 mg/m3
USA OSHA	OSHA (OEL) TWA Table Z-1	200 ppm, 840 mg/m3
Aliphatic Solvent(64742-47-8)	· · · ·	
USA ACGIH	ACGIH (TLV) TWA	200 mg/m3
USA NIOSH	NIOSH REL (ST)	10 mg/m3
USA NIOSH	NIOSH REL (TWA)	5 mg/m3
USA OSHA	OSHA OEL (TLV) TWA Table Z-1	500 ppm, 2,000 mg/m3
USA OSHA	OSHA OEL Table Z-1	5 mg/m3
Aluminum Hydroxide(21645-51-2)		
USA ACGIH	ACGIH (TLV) TWA	10 mg/m3 (Total dust), 3 mg/m3
		(Respirable fraction)
USA OSHA	OSHA (PEL) TWA	15 mg/m3 (Tptal dust), 5 mg/m3
		(Respirable fraction)
Barium Sulfate(7727-43-7)		
USA ACGIH	ACGIH (TLV)TWA	10 mg/m3
USA NIOSH	NIOSH (REL) TWA	5 mg/m3
USA OSHA	OSHA (OEL) TWA	15 mg/m3
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
Calcium Carbonate(1317-65-3)		
USA NIOSH	NIOSH (TWA)	10 mg/m3, (Respirable dust)
USA NIOSH	NIOSH (TWA)	10 mg/m3, (Total dust)
USA OSHA	OSHA (TWA)	15 mg/m3, (Total dust)
USA OSHA	OSHA (TWA)	5 mg/m3, (Respirable 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
Crystalline Silica(14808-60-7)		
USA ACGIH	ACGIH (TLV) TWA	.025 mg/m3
Diacetone Alcohol(123-42-2)		
USA ACGIH	ACGIH (TLV) TWA	50 ppm
USA NIOSH	NIOSH (REL) TWA	50 ppm, 240 mg/m3
USA OSHA	OSHA (OEL) TWA Table Z-1	50 ppm, 240 mg/m3
Isobutyl Alcohol(78-83-1)		
USA ACGIH	ACGIH TWA	50 ppm
	•	• ••

USA OSHA	OSHA PEL	100 ppm, 300 mg/m3
Meta-Xylene(108-38-3)	OSHATEE	100 ppm, 500 mg/m5
USA ACGIH	ACGIH STEL TLV (15 m)	150 ppm, 651 mg/m3
USA ACGIH	ACGIH TWA (8 h)	100 ppm, 434 mg/m3
USA OSHA	OSHA TWA (8 h)	100 ppm, 435 mg/m3
Methyl Amyl Ketone(110-43-0)		200 pp, 100g,
USA ACGIH	ACGIH TLV TWA	50 ppm
USA OSHA	OSHA PEL (Table Z-1)	100 ppm, 465 mg/m3
Methyl Ethyl Ketoxime(96-29-7)		
USA WEEL	(WEEL) TWA	10 ppm
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
O-Xylene(95-47-6)	· · ·	
USA ACGIH	ACGIH (TLV) STEL	150 ppm
USA ACGIH	ACGIH (TLV) TWA	100 ppm
USA NIOSH	NIOSH (REL) ST	150 ppm, 655 mg/m3
USA NIOSH	NIOSH (REL) TWA	100 ppm, 435 mg/m3
USA OSHA	OSHA (OEL) TWA Table Z-1	100 ppm, 435 mg/m3
Para-Xylene(106-42-3)		
USA ACGIH	ACGIH (TLV) STEL	150 ppm
USA ACGIH	ACGIH (TLV) TWA	100 ppm
USA NIOSH	NIOSH (REL) ST	150 ppm, 650 mg/m3
USA NIOSH	NIOSH (REL) TWA	100 ppm, 435 mg/m3
USA OSHA	OSHA (OEL) TWA Table Z-1	100 ppm, 435 mg/m3
Phenylethane(100-41-4)		
USA ACGIH	ACGIH STEL	125 ppm
USA ACGIH	ACGIH TWA	20 ppm
USA NIOSH	NIOSH REL	100 ppm, 435 mg/m3
USA NIOSH	NIOSH REL (ST)	125 ppm, 545 mg/m3
USA OSHA	OSHA STEL	125 ppm, 545 mg/m3
USA OSHA	OSHA TWA (Table Z-1)	100 ppm, 435 mg/m3
Propyl Alcohol(71-23-8)		
OSA NIOSH	NIOSH (REL) ST	250 ppm, 625 mg/m3
USA ACGIH	ACGIH (TLV) TWA	100 ppm
USA NIOSH	NIOSH (REL) TWA	200 ppm, 500 mg/m3
USA OSHA	OSHA (OEL) TWA - (Table Z-1)	200 ppm
Pseudocumene(95-63-6)		
USA NIOSH	NIOSH (TWA) REL	25 ppm, 125 mg/m3
Titanium Dioxide(13463-67-7)		
PEL (Permissible Exposure Limit)		15 mg/m3
TLV	ACGIH TWA	10 mg/m3
Xylene(1330-20-7)		150
	ACGIH STEL	150 ppm
	ACGIH TWA	100 ppm
USA OSHA	OSHA TWA (Table Z-1)	100 PPM, 435 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	:	207.0 deg F TO 305.0 deg F
Flash point	:	55.00 deg F
Lower explosion limit	:	.8
Upper explosion limit	:	13.7
Vapor pressure	:	185 mm Hg
Vapor density	:	Heavier than air
Relative density	:	No data available.
Density	:	10.4706
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

1,10-Phenanthroline(66-	71-7)
LD50 Oral - Rat - Acute	132 mg/kg
toxicity	
2-Ethylhexanoic acid(149	9-57-5)
Additional Information	RTECS: MO7700000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence.
Aspiration hazard	No data available.
Carcinogenicity	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 NTP. OSHA: No component of 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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 toxicity	3,000 mg/kg, Oral, Rat
Reproductive toxicity	Suspected human reproductive toxicant no data available no data available Developmental Toxicity - rat - Oral Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Developmental Toxicity - rat - Oral Specific Developmental Abnormalities: Musculoskeletal system. Specific Developmental Abnormalities: Cardiovascular (circulatory) system. Specific Developmental Abnormalities: Urogenital system.
Respiratory or skin sensitization	No data available.
Serious eye	Eyes - rabbit Result: Severe eye irritation

damage/eye irritation	
Skin	No data available.
corrosion/irritation	No data avaliable.
Specific target organ	No data available.
toxicity - repeated	
exposure	
Specific target organ	No data available.
toxicity - single	
exposure	
ACETIC ACID, n-propyl e	ester(109-60-4)
Additional Information	RTECS: AJ3675000 prolonged or repeated exposure can cause, narcosis.
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 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	32 mg/l, Rat - 4 h
LD50 Dermal - Rabbit	17,740 mg/kg, Rabbit
LD50 Oral - Rat - Acute toxicity	
Reproductive toxicity	No data available.
Respiratory or skin	No data available.
sensitization Serious eye	Eyes - Rabbit Result: Moderate eye irritation
damage/eye irritation	Eyes - Rabbit Result: Moderate eye irritation
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation
Specific target organ	No data available.
toxicity - repeated exposure	
i Specific target organ	I May cause drowsiness or dizziness.
Specific target organ toxicity - single	May cause drowsiness or dizziness.
toxicity - single exposure	May cause drowsiness or dizziness.
toxicity - single	
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	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 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 corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
Specific target organ toxicity - repeated	No data available.
exposure	
Specific target organ	No data available.
toxicity - single	
exposure	
Amorphous Silica(7631-8	
Additional toxicological	The product is not subject to classification according ot internally approved calculation methods
information	for preparations: When used and handled according tp 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)
Barium Sulfate(7727-43-	
Chronic Toxicity	No toxic effects known.
Irritation/corrosion	Product not irritating to eyes or skin.
LD50 Oral - Rat - Acute toxicity	>15,000 mg/kg
Sensitsation	No sinsibilisation known.
Butyl Alcohol(71-36-3)	
Additional Information	RTECS: EO1400000 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 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 NTP. OSHA: 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, Ureter, 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	Rabbit Result: Skin irritation - 24 h
corrosion/irritation Specific target organ	No data available
toxicity - repeated exposure	

toxicity - single exposureACarbon Black(1333-86-4)ACGIH The A A4, Not ClassACGIHACGIH The A A4, Not ClassCarcinogenicity ClassificationGHS- Not a f (GHS).Human EpidemiologyResults of ep exposure to A recent U.S (inhalable fra an exposure result in a 48 time would b carbon black S% of the ur European sta drawing of dHuman Epidemiology - contSince this IA study data u carbon black Morfeld and between carf exposure in ta adverse heal relationshipHuman Epidemiology - cont.Morfeld and confounders before being excess risk. (carbon black Morfeld and confounders before being excess risk. (carbon black morkers in th adverse heal relationshipHuman Epidemiology - cont.This study, h with negligib 10) found an increase was increased ris black worker UK study 10 15) of 18 pla Based upon f evidence in ta adverse heal relationshipIARCIARC In 1999 of carbon black (Group 2B).LD50 (Rat)>8000 mg/k	spiratory irritation. May cause drowsiness or dizziness merican Conference of Governmental Industrial Hygienists classifies carbon black as sifiable as a Human Carcinogen. hazardous substance or preparation according to the Global Harmonized System idemiological studies of carbon black production workers suggest that cumulative carbon black may result in small decrements in lung function, as measured by FEV1. . respiratory morbidity study suggested a 27 mL decline in FEV1 from a 1 mg/m3 action) exposure over a 40-year period. An older European investigation suggested to 1 mg/m3 (inhalable fraction) of carbon black over a 40-year working-lifetime will B mL decline in FEV1. In contrast, normal age related decline over a similar period of e approximately 1200 ml. The relationship between symptoms and exposure to is less clear. In the U.S. study, 9% of the highest exposure group (in contrast to iexposed group) reported symptoms consistent with chronic bronchitis. In the idy, methodological limitations in the administration of the questionnaire limit the efinitive conclusions about symptoms. RC evaluation of carbon black, Sorahan and Harrington 16) re-analyzed the UK sing an alternative exposure hypothesis and found a positive association with exposure in two of the five plants. The same exposure hypothesis was applied by McCunney 17-18) to the German cohort; in contrast, they found no association on black exposure and lung cancer risk and, thus, no support for the alternative bothesis used by Sorahan and Harrington 16). McCunney 19) applied a Bayesian approach to unravel the role of uncontrolled and identified smoking and prior exposure to occupational carcinogens received hired in the carbon black industry as main causes of the observed lung cancer Overall, as a result of these detailed investigations, no causative link between exposure and cancer risk in humans has been demonstrated. This view is
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of carbon bla evidence in e evaluation w conclusion w exhibits carc again classifi IARC conclud carbon black (Group 2B). LD50 (Rat) >8000 mg/k Mutagenic Effects and In an experin	le effects on lung function. A study on carbon black production workers in the UK increased risk of lung cancer in two of the five plants studied; however, the not related to the dose of carbon black. Thus, the authors did not consider the k in lung cancer to be due to carbon black exposure. A German study of carbon s at one plant 11-14) found a similar increase in lung cancer risk but, like the 2001 found no association with carbon black exposure. In contrast, a large US study nts showed a reduction in lung cancer risk in carbon black production workers. these studies, the February 2006 Working Group at IARC concluded that the human carcinogenicity was inadequate 1).
Mutagenic Effects and In an experir	5 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity ck." Based on rat inhalation studies IARC concluded that there is, "sufficient experimental animals for the carcinogenicity of carbon black," IARC's overall as that, "Carbon black is possibly carcinogenic to humans (Group 2B)". This as based on IARC's guidelines, which require such a classification if one species inogenicity in two or more studies. IARC performed another review in 2006, and ed carbon black as possibly carcinogenic to humans (Group 2B). In its 1987 review led, "There is sufficient evidence in experimental animals for the carcinogenicity of extracts." Carbon black extracts are classified as, possibly carcinogenic to humans
	g
believed to b inflammation secondary ge mutagenic. O systems bec carbon black however, con	nental investigation, mutational changes in the heart gene were reported in alveolar s in the rat following inhalation exposure to carbon black. This observation is e rat specific and a consequence of "lung overload" which led to chronic and release of genotoxic oxygen species. This mechanism is considered to be a enotoxic effect and thus, carbon black itself would not be considered to be Carbon black is not suitable to be tested in bacterial (Ames test) and other in vitro
	ause of its insolubility in aqueous solutions. When tested, however, results for showed no mutagenic effects. Organic solvent extracts of carbon black can, itain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the y of these PAHs showed that PAHs are very tightly bound to carbon black and not
document or greater than carcinogens, the cyclohex	ause of its insolubility in aqueous solutions. When tested, however, results for showed no mutagenic effects. Organic solvent extracts of carbon black can, ntain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the

the U.S. Occupational Safety and Health Administration (OSHA) or the European Union (EU). Reproductive any exprimental studies on effects of carbon black in deposited in the longs and based on its specific physicochemical properties (insolubility, low absorption potential), it is not likely to conditions. Therefore, no adverse effects of carbon black is to fertility/ma primal studies. Sensitization No animal data is available. No cases in humans have been reported. STOT - repeated Therefore, no STOT, Repeated exposure classification is made. STOT- single exposure Inhelation studies with the rat showed lung effects (see Section 11.2 and 11.3), these effects are believed to be specific to the specific to the specific to the specific to "lung overload" 1 and these effects are believed to be specific to the specific to "lung overload" mechanism is not relevant to humans. 4) Therefore, no STOT. Repeated Exposure classification is made. Crystalline Silical (14805-60:7) No data available. No data available. No data available. No data available. No data available. Additional Information RTECS: W27330000 Prolonged inhalation of crystalline silica may result in silicosis, a disabling public studies silica s classifie as group 1" known to be carcingenic to humans" by IARC and "sufficient evidence" of carcinogenicity by the RTP., The chronic health runs are sociated with respiratory of carcinogenicity by the RTP. The chronic health runs are sociated with respiratory of carcinogenicity in human studies IARC 1 - Group 1: Carcinogenic to humans" by IARC and "sufficient evidence" of carcinogenicity in hum	NTD	NTD Carbon black is not designated a servine and by the U.C. National Taxiada an Dramon (NTD)
Reproductive and Teratogenic Effects No experimental studies on effects of carbon black in deposited in the lungs and based on its specific physicochemical properties (insolubility, low absorption potential), its not likely is destribute in the body to reach reproductive organs, embry and/or fatus under in vivo conditions. Therefore, no adverse effects of carbon black to fartity/reproduction or to fetal sensitization No animal date is available. No cases in humans have been remarked. Therefore, no STOT, Repeated exposure classification is made. STOT- repeated Inhelation studies with the rat showed lung effects (see Section 11.2 and 11.3), these effects are believed to be the effects of "ungoverload" 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 is necessary if the mechanism is not relevant to humans. 4) Also, the CLP Guidance on classification is necessary if the mechanism is not relevant to humans. 4) Also, the CLP Guidance on classification is necessary if Acute toxicity. Acute toxicity. No data available.	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).
STOT- repeated exposure Therefore, no STOT, Repeated exposure classification is made. STOT- single exposure Inhalation studies with the rat showed lung effects (see Section 11.2 and 11.3), these effects are believed to be the effects of "lung overload" in 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 Acute toxicity - Inhalation No data available. Acute toxicity - Incapacity to work. Advanced silicosis may result in death due to cardiac failures and by Incapacity to work. Advanced silicosis may result in death due to cardiac failures of the subscription abazed Additional Information Additional studies are needed to determine whether the cell transforming activity of uar	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.
exposure Inhibition 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 specific to be the effects of "lung overload" 1 and these effects are believed to be specific to the specific to the "lung overload" mechanism is not relevant to humans. 4) Therefore, no STOT, Repeated Exposure classification is made Crystalline Silica(14808-60-7) No data available. Acute toxicity - No data available. No data available. Acute toxicity - No data available. No data available. Adute toxicity - No data available. No data available. Adute toxicity - No data available. No data available. Adute toxicity - No data available. No data available. Adute toxicity - No data available. No data available. Additional Information RTECS: VV7330000 Prolonged inhalation of crystalline silica may result in silicosis, a disabiling pulmonary fibrosis characterized by fibrotic changes and millary nodules in the lungs, a dry cough, shortness of breach, emplysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stages, loss of appette, pleuritic numans "by IARC and "sufficient evidence" of carcinogenicity by the NTP, The chronic health risks are associated with respirable particles of 3-4 um over protracted periods of time. Currently, there is a limited understanding of the mechanisms of quartz toxicity, including its mechanisms for lung toxicity toxicity. Additional Information	Sensitization	
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Acute toxicity - Dermal No data available. Acute toxicity - Inhalation No data available. Additional Information RTECS: VV7330000 Prolonged inhalation of crystalline silica may result in silicosis, a disabiling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of hversh, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stages, loss of appetite, pleuritic pain, and total incapacity to work. Advanced silicosis may result in death due to cardinal failure or destruction of lung tissue. Crystalline silica is classified as group 1 "known to be carcinogenic to humans" by IARC and "sufficient evidence" of carcinogenicity by the NTP., The chronic health risks are associated with respirable particles of 3-4 un over protrated periods of time. Currently, there is a limited understanding of the mechanisms of quartz toxicity, including its mechanisms for lung carcinogenicity regularities - Based on Human Evidence. Additional Information Additional studies are needed to determine whether the cell transforming activity of quartz is (Quartz) ACGHH. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGH. NTP: Known to be human carcinogen (Quartz) OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Germ Cell mutagenicity No data available. Respiratory or skin exploratory or skin sensitization No data available. Skin No data available. Corroison/iritation	STOT- single exposure	are believed to be the effects of "lung overload" 1 and these effects are believed to be specific to the species. In addition, the European CLP Regulation states that no classification is necessary if the mechanism is not relevant to humans. 4) Also, the CLP Guidance on classification and labeling states that the "lung overload" mechanism is not relevant to humans. 4) Therefore, no
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(Quartz) ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: Known to be human carcinogen (Quartz) OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Germ Cell mutagenicity No data available. Reproductive toxicity No data available. Reproductive toxicity No data available. Respriatory or skin No data available. Serious eye No data available. damage/eye irritation Serious eye Skin No data available. corrosion/irritation No data available. Specific target organ Inhalation - May cause damage to organs through prolonged or repeated exposure. toxicity - repeated No data available. exposure No data available. Diacetone Alcohol(123-42-2) RTECS: SA9100000 Central nervous system depression, Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., Blood disorders, Dermattits, Blurred vision, Effects due to ingestion may include:., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence. Aspiration hazard No data available. </td <td>Aspiration hazard</td> <td>No data available.</td>	Aspiration hazard	No data available.
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Additional InformationRTECS: SA9100000 Central nervous system depression, Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., Blood disorders, Dermatitis, Blurred vision, Effects due to ingestion may include:, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence.Aspiration hazardNo data available.CarcinogenicityIARC: 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.		2-2)
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.	Additional Information	RTECS: SA9100000 Central nervous system depression, Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., Blood disorders, Dermatitis, Blurred vision, Effects due to ingestion may include:, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities -
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.	Aspiration hazard	
Germ cell mutagenicity 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 NTP. OSHA: 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	>10 mg/l, Inhalation - Rat -4 h.
LC50 Oral - Rat - Acute	
Toxicity	seizure threshold. Liver: Other changes.
LD50 Dermal - Rabbit	13,500 mg/kg, Dermal - Rabbit
Reproductive toxicity	No data available.
Respiratory or skin sensitization	No data available.
Serious eye	Eyes - Rabbit Result: Severe eye irritation - 24 h
damage/eye irritation Skin	No data available.
corrosion/irritation	
Specific target organ	No data available.
toxicity - repeated exposure	
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
Carcinogenicity Data.	NTP.
LC50 Inhalation - Rat	8000 ppm; (4 h)
LD50 Dermal - Rabbit	3400 mg/kg
LD50 Oral - Rat (Acute	2460 mg/kg
Toxicity) Mutagenicity Data:	No adverse mutagenicity effects are anticipated.
Reproductive Data:	No adverse reproductive effects are anticipated.
Respiratory / Skin	None known.
Sensitization Data:	
Synergistic Materials:	Alcohols may interact synergistically with chlorinated solvents (example - carbon tetrachloride,
	chloroform, bromotrichloromethane), dithiocarbamates (example - disulfiram),
Tatus acusiaitas Datas	dimethylnitrosamine and thioacetamide.
Tetragenicity Data: Meta-Xylene(108-38-3)	No adverse Tetragenicity effects are anticipated.
Additional Information	RTECS: ZE2275000 Liver injury may occur., Kidney injury may occur., Blood disorders, burning
	sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting,
	narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression,
	Dermatitis, Gastrointestinal disturbance.
Aspiration hazard	May be fatal if swallowed and enters airways.
Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its
	carcinogenicity to humans (m-Xylene) 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 presents at levels greater than or equal to 0.1% is identified as a
<u> </u>	carcinogen or potential carcinogen by OSHA.
Germ cell mutagenicity	carcinogen or potential carcinogen by OSHA. No data available.
LC50 Inhalation (Rat,	carcinogen or potential carcinogen by OSHA.
LC50 Inhalation (Rat, Male)	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.)
LC50 Inhalation (Rat,	carcinogen or potential carcinogen by OSHA. No data available.
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male)	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401)
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity	 carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401)
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization	 carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429)
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye	 carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization	 carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429)
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h No data available.
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h No data available.
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h No data available. Inhalation - May cause respiratory irritation.
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Methyl Amyl Ketone(110 Aspiration hazard	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h No data available. Inhalation - May cause respiratory irritation.
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Methyl Amyl Ketone(110 Aspiration hazard Carcinogenicity	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h No data available. Inhalation - May cause respiratory irritation. -43-0) May be harmful if swallowed and enters airways. No data available.
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Methyl Amyl Ketone(110 Aspiration hazard Carcinogenicity LD50 Dermal - (Rat)	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h No data available. 0-43-0) May be harmful if swallowed and enters airways. No data available. >2,000 mg/kg
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Methyl Amyl Ketone(110 Aspiration hazard Carcinogenicity	carcinogen or potential carcinogen by OSHA. No data available. 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h No data available. Inhalation - May cause respiratory irritation. 0-43-0) May be harmful if swallowed and enters airways. No data available.

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:, (Mouse) - non-sensitizing.
sensitization	
Serious eye	(Rabbit, 24 h): slight.
damage/eye irritation	
Skin	(Rabbit, 24 h): moderate.
corrosion/irritation	
Specific target organ	No data available.
toxicity - repeated	
exposure	
Specific target organ	No data available.
toxicity - single	
exposure	
Methyl Ethyl Ketoxime(9	6-29-7)
Additional Information	Repeated dose toxicity - Rat - male - Drinking - No observed adverse effect level - 25 mg/kg
	Repeated dose toxicity - Rat - male and female - inhalation (vapour) - No observed adverse
	effect level - 0.009 mg/kg RTECS: EL9275000 To the best of our knowledge, the chemical,
	physical, and toxicological properties have not been thoroughly investigated.
Aspiration hazard	No data available.
Carcinogenicity	Limited evidence of carcinogenicity in animal studies IARC: No component of this product
5/	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	in vitro assay S. typhimurium Result: negative Drosophila melanogaster - male Result: negative.
LC50 Inhalation - Rat -	4.83 mg/l, 4 h, Rat - male & female (OECD Test Guideline 403)
male & female	too may, i h, hat male a tendre (of too fost ourdenne foo)
LD50 Dermal - Rabbit	1,000 - 1,800 mg/kg
LD50 Oral - Rat - Acute	2,236 mg/kg, Oral - Rat - (OECD Test Guideline 401)
toxicity	2,250 mg/kg, ordin kat (oleb rest Guideline 401)
Reproductive toxicity	No data available.
Respiratory or skin	Buehler Test - Guinea pig May cause sensitization by skin contact. (OECD Test Guideline 406)
sensitization	Buenier rest - Guinea pig may cause sensitization by skin contact. (OLCD rest Guideline 400)
Serious eye	Eyes - Rabbit Result- Risk of serious damage to eyes. (OECD Test Guideline 405)
damage/eye irritation	Lyes - Rabbit Result- Risk of serious damage to eyes. (OLCD Test Guideline 405)
Skin	Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)
corrosion/irritation	Skill - Rabbit Result. No skill initiation (OLCD Test Guideline 404)
,	No data available.
Specific target organ	No data available.
toxicity - repeated	
exposure	
Specific target organ	No data available.
toxicity - single	
exposure	4)
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	
<i>i</i> .	
exposure	
exposure Specific target organ	Narcotic effect.

toxicity - single	
exposure	
O-Xylene(95-47-6)	
Additional Information	RTECS: ZE2450000 narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression, Dermatitis, Gastrointestinal disturbance, Liver injury may occur., Kidney injury may occur., Blood disorders Nerves
Aspiration hazard	May be fatal if swallowed and enters airways.
Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (o-Xylene) 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	Ames test Salmonella typhimurium Result: negative
LC50 - Inhalation - Rat - Male	>18,800 mg/m3, Rat - male - 6 h
LD50 - Intraperitoneal - Mouse -	1,364 mg/kg, Mouse
Oral - Acute Toxicity	No data available.
Reproductive toxicity	No data available.
Respiratory or skin sensitization	Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429)
Serious eye damage/eye irritation	No data available.
Skin corrosion/irritation	Skin - Rabbit Result: Irritating to skin 24 h
Specific target organ toxicity - repeated exposure	No data available.
Specific target organ toxicity - single exposure	No data available.
Para-Xylene(106-42-3)	
Additional Information	RTECS: ZE2625000 narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression, Gastrointestinal disturbance, Liver injury may occur., Kidney injury may occur., Blood disorders Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence.
Aspiration hazard	No data available.
Carcinogenicity	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (p-Xylene) 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	4,550 ppm, Rat - 4 h
LD50 - Oral - Rat - Acute toxicity	5,000 mg/m3, Oral - Rat
LD50 - Oral - Rat -Male	3,253 mg/kg, Oral - Rat - Male
Reproductive toxicity	No data available. May cause reproductive disorders.
Respiratory or skin sensitization	No data available.
Serious eye damage/eye irritation	No data available.
Skin corrosion/irritation	Skin - Rabbit Result: Moderate skin irritation - 4 h
Specific target organ toxicity - repeated exposure	No data available.
Specific target organ toxicity - single exposure	No data available.
Phenylethane(100-41-4)	
Aspiration toxicity	May be fatal if swallowed and enters airways.
Carcinogenicity	Species: mouse, (male and female) Application Route: Inhalation Exposure time: 103 wk Activity duration: 6 h Dose: 0, 75, 250, 750 ppm Frequency of Treatment: 5 days/week NOAEL: 250 ppm Method: OECD Test Guideline 453 Result: evidence of carcinogenic activity Symptoms: increased incidences of alveolar/bronchiolar neoplasms, increase incidence of hepatocellular carcinomas GLP: yes Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

Germ cell mutagenicity	Genotoxicity in vitro, Test Type: Chromosome aberration test in vitro Test species: Chinese hamster ovary (CHO) Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: no : Test Type: Mammalian cell gene mutation assay Test species: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method : OECD Test Guideline 476 Result: negative GLP: yes Genotoxicity in vivo : Test Type: In vivo micronucleus test Test species: mouse (male) Application Route: Oral Method: OECD Test Guideline 474 Result: negative GLP: yes Test Type: DNA damage and/or repair Test
	species: mouse (male and female)Application Route: Inhalation Method: OECD Test Guideline 486 Result: negative GLP: yes Germ cell mutagenicity Assessment : In vivo tests did not show mutagenic effects
LC50 (Mouse, Male)	10 mg/l Assessment: The component/mixture is moderately toxic after short term inhalation.
LD50 (rabbit)	15,433 mg/kg
Repeated dose toxicity	Species: rat, male and female NOAEL: 75 mg/kg Application Route: Oral Exposure time: 28 d Dose: 75, 250 and 750 mg/kg bw/day Method: OECD Test Guideline 407 GLP: yes Symptoms: Increased kidney and liver weights
Reproductive toxicity	Effects on fertility : Test Type: One generation study Species: rat, male and female Application Route: Inhalation Dose: 0, 100, 500 and 1000 ppm Duration of Single Treatment: 6 h General Toxicity - Parent: NOAEC: 1,000 ppm General Toxicity F1: NOAEC: 100 ppm Symptoms: Reduced fetal weight. Reduced offspring weight gain. Method: OECD Test Guideline 415 Result: No reproductive effects. GLP: yes Effects on fetal development : Species: rat Application Route: Inhalation Dose: 0, 100, 500, 1000, 2000 ppm Duration of Single Treatment: 15 d General Toxicity Maternal: NOAEC: 500 ppm Teratogenicity: NOAEC: 2,000 ppm Developmental Toxicity: NOAEC: 500 ppm Symptoms: Reduced body weight Method: OECD Test Guideline 414 Result: Developmental toxicity occurred at maternal toxicity dose levels GLP: No data available Reproductive toxicity - Assessment : No toxicity to reproduction Did not show teratogenic effects in animal experiments.
Respiratory or skin	Remarks: No data available
sensitization Serious eye damage/eye irritation	Species: rabbit Result: Mild eye irritation Remarks: No data available
Skin	Species: rabbit Result: Mild skin irritation
corrosion/irritation STOT - repeated	Target Organs: Auditory system Assessment: May cause damage to organs through prolonged
exposure	or repeated exposure. The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
STOT - single exposure	No data available.
Propyl Alcohol(71-23-8)	
Additional Information	RTECS: UH8225000 Central nervous system depression, prolonged or repeated exposure can cause:, narcosis, Skin irritation Stomach - Irregularities - Based on Human Evidence 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. 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 LC50 Dermal - Rabbit	No data available. 4,000 mg/kg, Rabbit, (OECD Test Guideline 402)
LC50 Dermai - Rabbit LC50 Inhalation - Rat	20,000 ppm, Rat (1 h)
LD50 Oral -Rat - Acute Toxicity	8,038 mg/m3, (OECD Test Guideline 401)
Reproductive toxicity	No data available.
Respiratory or skin	Maximization Test (GPMT) - Guinea pig Result: Did not cause sensitization on laboratory
sensitization Serious eye	animals. Eyes - Rabbit Result: Severe eye irritation (OECD Test Guideline 405)
damage/eye irritation Skin	Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)
corrosion/irritation Specific target organ toxicity - repeated exposure	No data available.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.
Pseudocumene(95-63-6)	
Additional Information	RTECS: DC3325000 prolonged or repeated exposure can cause:, narcosis, Bronchitis., Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Central nervous system
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 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	in vitro assay S. typhimurium Result: negative Mutagenicity (micronucleus test) Rat - male and female - Bone marrow Result: negative
Inhalation:	No data available.
LD50 Oral - Rat - Acute	
Reproductive toxicity	No data available.
Respiratory or skin	No data available.
sensitization	
Serious eye damage/eye irritation	No data available.
Skin corrosion/irritation	No data available
Specific target organ	No data available.
toxicity - repeated	
exposure Specific target organ	No data available.
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 Ti02.
Dermal ALD (rabbit)	>10000 mg/m3
Eye irritation	slight irritation
Inhalation 4 h ALC	>6.82 mg/l
ORAL ALD (rat)	>2400 mg/kg
Sensitsation	Did not cause sensitsation on laboratory animals.
Skin irritation	slight irritation
Xylene(1330-20-7)	
Acute dermal toxicity	Acute toxicity estimate : 1,100 mg/kg Method: Expert judgment.
Acute inhalation toxicity	Acute toxicity estimate, 4631 ppm Exposure time, 4 h Test atmosphere: gas Method; Calculation method.
Acute toxicity Product	Acute oral toxicity : Acute toxicity estimate : 3,523 mg/kg Method: Calculation method.
Aspiration Toxicity	May be fatal if swallowed and enters airways.
Carcinogenicity	Species: mouse, (male and female) Application Route: Oral Exposure time: 103 wk Dose: 0, 500 or 1000 mg/kg Frequency of Treatment: 5 days/week Method: Directive 67/548/EEC, Annex V, B.32. Result: did not display carcinogenic properties GLP: No data available, Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.
Germ cell mutagenicity	Test Type: Chromosome aberration test in virto. Test Species: Chinese hamster ovary (CHO) Metabolic Activation: With and without metabolic activation. Method Mutagenicity (in vitro mammalian cytogenetic test) Result: Negative. Test Type: Sistrer chromatic exchange assay in mammalian cells.
Germ cell mutagenicity Assessment	Animal testing did not show any mutagenic effects.
LC50 (rat, male)	6700 ppm Exposure time: 4 h Method: Directive 67/548/EEC, Annex V, B.2. GLP: No data
Inhalation	available Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. Remarks: Acutely Toxic Category 4
LC50 (rat, male) Oral	3,523 mg/kg Method: EU Method B.1 (Acute Toxicity, Oral) Target Organs: Kidney, Bladder GLP: no
Repeated dose toxicity	Species: rat, male and female NOAEL: 250 mg/kg Application Route: Oral Exposure time: 103 wk Number of exposures: 5 d/wk Dose: 0, 250 or 500 mg/kg Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
Reproductive toxicity	Effects on fertility : Test Type: Two-generation study Species : rat, male and female Application Route: Inhalation Dose: 0, 25, 100 and 500 ppm Duration of Single Treatment: 6 h Frequency of Treatment: 7 days/week General Toxicity - Parent: NOAEC: > 500 ppm General Toxicity F1: NOAEC: > 500 ppm Early Embryonic Development: NOAEC: > 500 ppm Result: No reproductive effects. Effects on fetal development : Species: rat Application Route: Inhalation Dose: 0, 100, 500, 1000 or 2000 ppm Duration of Single Treatment: 14 d Frequency of Treatment: 6 hr/day General Toxicity Maternal: NOAEC: 500 ppm Teratogenicity: NOAEC: > 2,000 Developmental Toxicity: NOAEC: 100 ppm Result: No teratogenic effects., Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment : Animal testing did not show
Respiratory or skin	any effects on fertility. Damage to fetus not classifiable Remarks: No data available
···· ··· · ··· · ···	

sensitization	
Serious eye	Species: rabbit Result: Mild eye irritation
damage/eye irritation	
Skin	Species: rabbit Exposure time: 24 h Result: Irritating to skin Remarks: Skin irritation, Category
corrosion/irritation	2
STOT - repeated	Target Organs: Liver, Kidney, Central nervous system Assessment: May cause damage to
exposure	organs through prolonged or repeated exposure.
STOT - single exposure	No data available.

12. ECOLOGICAL INFORMATION

2-Ethylhexanoic acid(14	0.57.5)
Bioaccumulative	No data available.
potential	Nu uata available.
Mobility in soil	No data available.
Other adverse effects	No data available.
Persistence and degradability	No data available.
Results of PBT and	DRT (vDvP accomment not available as chamical asfativ accomment not required (not conducted
vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Toxicity	No data available.
ACETIC ACID, n-propyl e	
Bioaccumulative	Does not bioaccumulate.
potential	Dues not bloaccumulate.
EC50 - Daphnia magna	318 mg/l - 24 h, Daphnia magna (Water flea)
- Toxicity to daphnia	S10 High - 24 H, Daphilia Hiagila (Water Hea)
and other aquatic	
invertebrates	
LC50 - Pimephales	56 - 64 mg/l - 96 h, Pimephales promelas (fathead minnow)
promelas - Toxicity to	50 0 π mg/r 50 m, rimephales prometas (ramedu minituw)
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 adverse effects	Harmful to aquatic life.
Persistence and	Biodegradability Result: - Readily biodegradable
degradability	blouegradability Result Readily blouegradable
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
vPvB assessment	PBT/VFVB assessment not available as chemical safety assessment not required/not conducted
Aliphatic Solvent(64742-	47.9)
Bioaccumulative	No data available.
potential	Nu data available.
EC50 (Daphnia Magna)	1.4 mg/l - 48 h, - Daphnia magna (Water flea), (OECD Test Guideline 202)
Toxicity to daphnia and	1.4 mg/r - 46 m, - Dapimia magna (water nea), (OLCD rest Guidenne 202)
other aquatic invertebrates	
LC50 (Rainbow trout)	2.9 mg/l - 96 h, Oncorhynchus mykiss (rainbow trout)
Toxicity to fish	
Mobility in soil	No data available.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Develotor on and	Toxic to aquatic life. No data available.
Persistence and	No data available.
degradability Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
vPvB assessment	r bij vr vo assessment not avaliable as chemical Salety assessment not required/hot conducted.
Aluminum Hydroxide(21	645-51-2)
Bioaccumulative	
potential	Inert material.
EC50 - Daphnia -	>10,000 mg/l, Daphnia magna (Water flea) (OECD Test Guideline 202)
	20,000 mg/i, Dapimia magna (water nea) (OECD rest Guideline 202)
Toxicity to daphnia and other aquatic	
invertebrates EC50 - Fish - Toxicity	>10,000 mg/l, Fish
ro fish	20,000 mg/h, Fish
Mobility in soil	Inort matorial
	Inert material. >0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201)
NOEC - Toxicity to	20.004 mg/i, 72 m, rseudokirchnenena subcapitata (algae) - (OECD Test Guideline 201)
algae Othor advorse offects	None known
Other adverse effects Persistence and	None known.
Persisience and	Non-degradable

degradability	
Amorphous Silica(7631-	86-9)
Additional ecological information	General notes: Do not allow product to reach ground water, water course or sewage system.
Bioaccumulative	No further revelent information available.
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 revelent information available.
Persistence and	The product is chemically and biologically inert. By the insolubility in water there is a separation
degrability Barium Sulfate(7727-43	at every filtration and sedimentation process.
Bioaccumulative	The product is practically insoluble in water and not biodegradable.
Mobility in soil	No information.
Other adverse effects	No information.
Persistence and degradability	The methods for determining biodegradability are not applicable to inorganic substances.
Results of PBT and vPvB assessment	According to Annex XIII of regulation (EC) 1907/2006 a PBT and VPvB shal not be conducted for inorganic substances. Barium sulfate is an inorganic substance, thus a PBT abs vPVb assessment is not required.
Toxicity - Aquatic toxicity	Not known.
Butyl Alcohol(71-36-3)	
Bioaccumulative	Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 24 h - 921 mg/l
potential	1,983 mg/l - 48 h Daphnia magna (Water Flea)
EC50 Daphnia magna Toxicity to Daphnia	1,983 mg/l - 48 n Daphnia magna (water Fiea)
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 degradability	No data available
Result of PBT and vPvB assessment not required/not conducted	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Carbon Black(1333-86-4	4)
Behavior in water treatment plants	Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test)
Bioaccumulation Potential	Potential bioaccumulation is not expected because of the physicochemical properties of the substance
EC50 (Scenedesmus subspicatus)	> 10,000 mg/L, OECD (Guideline 201)
EC50 Daphnia magna (waterflea)	>5600 mg/l (24 h) OECD (Guideline 202)
Environmental fate	Carbon black is an inert solid, stable and insoluble in water or organic solvents. Its vapour pressure is negligible. Based on these properties it is expected that carbon black will not occur in air or water in relevant amounts. Also potential for distribution via water or air can be dismissed. The deposition in soil or sediments is therefore the most relevant compartment of fate in the environment.
LC50 Brachydanio reio (zebrafish)	>1000 mg/l (96 h) OECD (Guideline 203)
NOEC 50 (Scenedesmus	> 10,000 mg/L, OECD (Guideline 201)
subspicatus)	
Crystalline Silica(14808-	
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No data available.
Persistence and degradability	No data available.
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Toxicity	No data available.
Diacetone Alcohol(123-4	
Bioaccumulative	No data available.
EC50 - Daphnia magna	9,000 mg/l - 24 h, Daphnia magna (Water flea
- Toxicity to daphnia	
and other aquatic	
invertebrates	
LC50 - Lepomis	420 mg/l - 96 h, Lepomis macrochirus (Bluegill)
macrochirus - Toxicity	
to fish	
Mobility in soil Other adverse effects	No data available. 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	
Isobutyl Alcohol(78-83-1	1)
Chronic	No data available.
Degradability /	Evaluation: Not readily biodegradable (by OECD criteria).
Persistence; Biological	
/ A biological	
Degradation	100 mg/l (72 b) The product has not been tested. The statement has been defined by
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.
Meta-Xylene(108-38-3)	
Bioaccumulative	Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.
potential	
LC50 (Fish)	11.23 mg/l - 96 h (OECD Test Guideline 203)
Mobility in soil Other adverse effects	No data available. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.
Persistence and	No data available.
degradability Results of PBT and	DDT/vDvD processment not available as sherrival asfety accomment not you jived (not conducted
vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Toxicity to algae	Remarks: No data available
Toxicity to daphnia and	
other aquatic	
invertebrates	
Methyl Amyl Ketone(110	
Aquatic invertebrates	No data available.
Bioaccumulative potential	No data available.
Chronic Toxicity (Fish)	No data available.
ErC50 (Selenastrum	98.2 mg/l, 72 h
capricornutum)	
LC50 (Fathead	131 mg/l , (96 h)
Minnow) Acute toxicity	Ne data available
Mobility in soil Persistence and	No data available. 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	
Methyl Ethyl Ketoxime(9	
Bioaccumulative potential	Bioaccumulation Cyprinus carpio (Carp) - 42 d - 2 mg/l Bioconcentration factor (BCF): 0.5 - 0.6 (OECD Test Guideline 305C)
EC50 - Daphnia magna	>100 mg/l, 48 h, Daphnia magna (Water flea) - (OECD Test Guideline 202)
- Toxicity to daphnia	
and other aquatic	
invertebrates	11.6 mg/L 72 h Coopedeemus convicementum (freeh water also a) (OEOD Test Ovidal' 201)
EC50 - Scenedesmus	11.6 mg/l, 72 h, Scenedesmus capricornutum (fresh water algae) - (OECD Test Guideline 201)

capricornutum -	
Toxicity to algae	
LC50 - Oryzias latipes - Toxicity to fish	>100 mg/l, 96 h, - Oryzias latipes - (OECD Test Guideline 203)
Mobility in soil	No data available.
Other adverse effects	No data available.
Persistence and degradability	MEKO has been determined to be biodegradable.
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
n-Butyl Acetate(123-86-	4)
Bioaccumulative potential	No data available.
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) Aquatic invertebrates	44 mg/l , (48 h)
Mobility in soil	Known or predicted distribution to environmental compartments: No data available.
Other adverse effects	No data available.
Persistence and degradability	83 % (28 d), Biological Oxygen Demand:BOD-5: 730 mg/g, Chemical Oxygen Demand:1,010 mg/g, BOD/COD ratio:72 %.
Results of PBT and	No data available.
vPvB assessment O-Xylene(95-47-6)	
Bioaccumulative	No data available.
potential LC50 - Lepomis	16.10 mg/l, 96 h, Lepomis macrochirus (Bluegill)
macrochirus - Toxicity	
Mobility in soil Other adverse effects	No data available. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
	Harmful to aquatic life with long lasting effects.
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 69.67 % - Not readily biodegradable. (OECD Test Guideline 301F) Remarks: The 10 day time window criterion is not fulfilled.
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Para-Xylene(106-42-3)	
Bioaccumulative	No data available.
EC50 - Daphnia magna - Toxicity to daphnia and other aquatic invertebrates	35.50 - 63.10 mg/l - 48 h, Daphnia magna (Water flea)
EC50 - Pseudokirchneriella subcapitata - Toxicity to algae	3.20 - 4040 mg/l - 72 h, Pseudokirchneriella subcapitata (green algae)
LC50 - Carassius auratus - Toxicity to fish	18.00 mg/l - 24 h, Carassius auratus (goldfish)
LC50 - Oncorhynchus mykiss - Toxicity to fish	2.60 mg/l - 96 h, Oncorhynchus mykiss (rainbow trout)
Mobility in soil	No data available.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.
Persistence and degradability	Biodegradability Result: 87.8 % - Readily biodegradable
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Phenylethane(100-41-4) Bioaccumulative	Partition coefficient: noctanol/water : log Pow: 2.92
potential	
EC50 (Daphnia magna (Water flea))	1.8 mg/l Exposure time: 48 h Test Type: static test
EC50 (Pseudokirchneriella subcapitata)	5.4 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: Static GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout))	4.2 mg/l Exposure time: 96 h Test Type: semi-static test
Mobility in soil	No data available.
Other adverse effects	Results of PBT and vPvB assessment : This substance is not considered to be persistent,
	bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
Persistence and degradability	Biodegradability : Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes
Toxicity to daphnia and	(Daphnia): 3.6 mg/l Toxicity to bacteria : GLP: Remarks: No data available Ecotoxicology
other aquatic	Assessment Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.
invertebrates (Chronic	
toxicity)	
Propyl Alcohol(71-23-8)	
Bioaccumulative potential	The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.
EC50 Daphnia magna -	3,642 mg/l, (48 h), Daphnia magna (Water flea), (DIN 38412)
Toxicity to daphnia and	
other aquatic invertebrates	
EC50	9,170 mg/l, (48 h), Pseudokirchneriella subcapitata (green algae)
Pseudokirchneriella	
subcapitata - Toxicity	
to algae	
LC50 - Pimephales	4,555 mg/l, (96 h), Pimephales promelas (fathead minnow) - (OECD Test Guideline 203)
promelas - Toxicity to	
Fish Mobility in soil	No data available.
Other adverse effects	No data available.
Persistence and	Biodegradability Result: 75 % - Readily biodegradable Ratio BOD/ThBOD < 2 %
degradability	
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
vPvB assessment	
Pseudocumene(95-63-6)	
Bioaccumulative potential	No data available.
EC50 - Daphnia magna	3.6 mg/l - 48 h (OECD Test Guideline 202), Daphnia magna (Water flea)
(Water flea) - Toxicity	
to daphnia and other	
aquatic invertebrates	
static test LC50 - Pimephales	7.72 mg/l - 96.0 h, Pimephales promelas (fathead minnow)
promelas (fathead	
minnow) - 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.
Persistence and	Toxic to aquatic life with long lasting effects. No data available.
degradability	
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
Xylene(1330-20-7)	
Bioaccumulative	Partition coefficient: noctanol/water : log Pow: 2.77 - 3.15
potential	<u> </u>
EC50	4.36 mg/l End point: Growth rate Exposure time: 73 h Test Type: static test Analytical
EC50 (Pseudokirchneriella	4.36 mg/l End point: Growth rate Exposure time: 73 h Test Type: static test Analytical monitoring: yes
(Pseudokirchneriella	4.36 mg/l End point: Growth rate Exposure time: 73 h Test Type: static test Analytical monitoring: yes
(Pseudokirchneriella subcapitata) IC50 (Daphnia magna (Water flea))	monitoring: yes 1 mg/l Exposure time: 24 h Test Type: static test substance: Information given is based on data obtained from similar substances. Method: OECD Test Guideline 202 GLP
(Pseudokirchneriella subcapitata) IC50 (Daphnia magna (Water flea)) LC50 (Oncorhynchus	 monitoring: yes 1 mg/l Exposure time: 24 h Test Type: static test substance: Information given is based on data obtained from similar substances. Method: OECD Test Guideline 202 GLP 2.6 mg/l Exposure time: 96 h Test substance: Information given is based on data obtained from
(Pseudokirchneriella subcapitata) IC50 (Daphnia magna (Water flea)) LC50 (Oncorhynchus mykiss (rainbow	monitoring: yes 1 mg/l Exposure time: 24 h Test Type: static test substance: Information given is based on data obtained from similar substances. Method: OECD Test Guideline 202 GLP
(Pseudokirchneriella subcapitata) IC50 (Daphnia magna (Water flea)) LC50 (Oncorhynchus mykiss (rainbow trout))	 monitoring: yes 1 mg/l Exposure time: 24 h Test Type: static test substance: Information given is based on data obtained from similar substances. Method: OECD Test Guideline 202 GLP 2.6 mg/l Exposure time: 96 h Test substance: Information given is based on data obtained from similar substances. Method: OECD Test Guideline 203 GLP: No data available
(Pseudokirchneriella subcapitata) IC50 (Daphnia magna (Water flea)) LC50 (Oncorhynchus mykiss (rainbow trout)) Mobility in soil	 monitoring: yes 1 mg/l Exposure time: 24 h Test Type: static test substance: Information given is based on data obtained from similar substances. Method: OECD Test Guideline 202 GLP 2.6 mg/l Exposure time: 96 h Test substance: Information given is based on data obtained from similar substances. Method: OECD Test Guideline 203 GLP: No data available No data available.
(Pseudokirchneriella subcapitata) IC50 (Daphnia magna (Water flea)) LC50 (Oncorhynchus mykiss (rainbow trout))	 monitoring: yes 1 mg/l Exposure time: 24 h Test Type: static test substance: Information given is based on data obtained from similar substances. Method: OECD Test Guideline 202 GLP 2.6 mg/l Exposure time: 96 h Test substance: Information given is based on data obtained from similar substances. Method: OECD Test Guideline 203 GLP: No data available

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 incenerate. 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 RESTRICTIONS THAT MAY APPLY.

USDOT GROUND DOT (DEPARTMENT OF TRANSPORTATION) PROPER SHIPPING NAME (DOT) : Paint 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 HAZARDS CLASS : 3 UN/NA NUMBER : UN1263 PACKING GROUP : PG II EMERGENCY RESPONSE GUIDE (ERG) : 128

IMDG (OCEAN) PROPER SHIPPING NAME : Paint 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#
n-Butyl Acetate	123-86-4
Xylene	1330-20-7
Phenylethane	100-41-4
Isobutyl Alcohol	78-83-1
Carbon Black	1333-86-4

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

SARA TITLE III (SUPERFUND AMENDMENTS 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
Acetic Acid, n-propyl ester	109-60-4
Methyl Amyl Ketone	110-43-0
Propyl Alcohol	71-23-8
n-Butyl Acetate	123-86-4
Amorphous Silica	7631-86-9
Xylene	1330-20-7
Phenylethane	100-41-4
Carbon Black	1333-86-4

CLEAN AIR ACT :

This product contains:	Chemical CAS#	
Phenylethane	100-41-4	
Meta-Xylene	108-38-3	
Para-Xylene	106-42-3	
O-Xylene	95-47-6	

INTERNATIONAL REGULATIONS

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

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

NATIONAL REGULATIONS

This product contains:	Chemical CAS#	
#Titanium Dioxide	13463-67-7	
#Phenylethane	100-41-4	
#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#
*Phenylethane	100-41-4
#2-Ethylhexanoic acid	149-57-5
*Crystalline Silica	14808-60-7
*Aliphatic Solvent	64742-47-8

*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#
Acetic Acid, n-propyl ester	109-60-4

Methyl Amyl Ketone	110-43-0
Propyl Alcohol	71-23-8
n-Butyl Acetate	123-86-4
Calcium Carbonate	1317-65-3
Barium Sulfate	7727-43-7
Xylene	1330-20-7
Diacetone Alcohol	123-42-2
Phenylethane	100-41-4
Isobutyl Alcohol	78-83-1
Carbon Black	1333-86-4
Butyl Alcohol	71-36-3
Aliphatic Solvent	64742-47-8
Para-Xylene	106-42-3
O-Xylene	95-47-6
Pseudocumene	95-63-6

Pennsylvania Right to Know

This product contains	Chemical CAS#
Titanium Dioxide	13463-67-7
Acetic Acid, n-propyl ester	109-60-4
Methyl Amyl Ketone	110-43-0
Propyl Alcohol	71-23-8
n-Butyl Acetate	123-86-4
Calcium Carbonate	1317-65-3
Barium Sulfate	7727-43-7
Amorphous Silica	7631-86-9
Xylene	1330-20-7
Aluminum Hydroxide	21645-51-2
Diacetone Alcohol	123-42-2
Phenylethane	100-41-4
Isobutyl Alcohol	78-83-1
Carbon Black	1333-86-4
Methyl Ethyl Ketoxime	96-29-7
Butyl Alcohol	71-36-3
1,10-Phenanthroline	66-71-7
2-Ethylhexanoic acid	149-57-5
Aliphatic Solvent	64742-47-8
Para-Xylene	106-42-3
O-Xylene	95-47-6
Pseudocumene	95-63-6

New Jersey Right to Know

This product contains	Chemical CAS#
Titanium Dioxide	13463-67-7
Acetic Acid, n-propyl ester	109-60-4
Methyl Amyl Ketone	110-43-0
Propyl Alcohol	71-23-8
n-Butyl Acetate	123-86-4
Calcium Carbonate	1317-65-3

Barium Sulfate	7727-43-7
Amorphous Silica	7631-86-9
Xylene	1330-20-7
Aluminum Hydroxide	21645-51-2
Diacetone Alcohol	123-42-2
Phenylethane	100-41-4
Isobutyl Alcohol	78-83-1
Carbon Black	1333-86-4
Methyl Ethyl Ketoxime	96-29-7
Butyl Alcohol	71-36-3
1,10-Phenanthroline	66-71-7
2-Ethylhexanoic acid	149-57-5
Aliphatic Solvent	64742-47-8
Para-Xylene	106-42-3
O-Xylene	95-47-6
Pseudocumene	95-63-6

16. OTHER INFORMATION

Other Product Information

% Volatile by Volume: 48.98 % Solids by volume: 51.02 % Exempt by Volume: 0.00

% Volatile by Weight: 30.45 % Solids by Weight: 69.55 % Exempt by Weight: 0.00

VOC CONTENT:

Excluding Exempt VOC: 420 Including Exempt VOC: 420

HMIS RATING

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

3 2 0

NFPA CODES

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