SAFETY DATA SHEET



DATE ISSUED: 5/14/2016
SDS REF. No: A-2000 SERIES

A-2000 SERIES LACQUER AEROSOL

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: A-2000 SERIES LACQUER AEROSOL

PRODUCT CODE: A-2000 SERIES

PRODUCT USE: Industrial Aerosol Touch Up Paint

MANUFACTURER 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

1329 Potrero Ave

2. HAZARDS IDENTIFICATION

Cardinal Industrial Finishes

PICTOGRAMS



SIGNAL WORD: DANGER

HAZARD STATEMENTS:

H223 Flammable aerosol.

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
Acetone	25% - 30%	67-64-1
Propane Blend	25% - 30%	74-98-6

Isobutyl Acetate	10% - 15%	110-19-0	
VM&P Naphtha	5% - 10%	64742-89-8	
Isopropyl Alcohol	1% - 5%	67-63-0	
Ethylene glycol mono butyl ether	1% - 5%	111-76-2	
Methyl Ethyl Ketone	1% - 5%	78-93-3	
Phenylethane	0.10% - 0.50%	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 advice 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

Acetone(67-64-1)			
USA ACGIH	ACGIH STEL TLV	750 ppm	
USA ACGIH	ACGIH TWA TLV	500 ppm	
USA NIOSH	NIOSH STEL (Table Z-1)	1,000 ppm, 2,400 mg/m3	
USA NIOSH	NIOSH TWA	250 ppm, 590 mg/m3	
USA OSHA	OSHA TWA (Table Z-1)	1,000 ppm, 2,400 mg/m3	
Aluminum Hydroxide(21645-51-2)	30 (. ab.a = 1)	1 1/300 pp, 1/100g,	
USA ACGIH	ACGIH (TLV) TWA	10 mg/m3 (Total dust), 3 mg/m3	
	(-1, -1, -1, -1, -1, -1, -1, -1, -1, -1,	(Respirable fraction)	
USA OSHA	OSHA (PEL) TWA	15 mg/m3 (Total dust), 5 mg/m3	
357.13511	33 (. ==)	(Respirable fraction)	
Benzene(71-43-2)		(
USA ACGIH	ACGIH STEL	2.5 ppm	
USA ACGIH	ACGIH TWA	0.5 ppm	
USA OSHA	OSHA CARC PEL	1 ppm	
USA OSHA	OSHA CARC STEL	5 ppm	
USA OSHA	OSHA CIEL (Table Z-1-A)	5 ppm	
USA OSHA	OSHA STEL	5 ppm	
USA OSHA	OSHA TWA (Table Z-1-A)	1 ppm	
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	
Ethyl Alcohol(64-17-5)	<u> </u>	, <u></u>	
USA ACGIH	ACGIH TWA (TLV)	1,000 ppm	
USA NIOSH	NIOSH TWA	1,000 ppm, 1,900 mg/m3	
USA OSHA	OSHA TWA (Table Z-1)	1,000 ppm, 1,900 mg/m3	
Ethylene glycol mono butyl ether(111-76-	, ,	, , , , , ,	
USA ACGIH	ÁCGIH TWA (ppm)	20 ppm	
USA NIOSH	NIOSH REL (ppm)	5 ppm	
USA OSHA	OSHA PO TWA (ppm)	25 ppm	
USA OSHA	OSHA TABLE Z-1 TWA (mg/m3)	50 ppm, 240 mg/m3	
Isobutyl Acetate(110-19-0)			
USA ACGIH	ACGIH TWA TLV	150 ppm	
USA OSHA	OSHA PEL (TABLE Z-1)	150ppm, 700 mg/m3	
Isopropyl Alcohol(67-63-0)			
USA ACGIH	ACGIH STEL	400 ppm	
USA ACGIH	ACGIH TWA	200 ppm	
USA NIOSH	NIOSH IDLH	2,000 ppm	

Meta-Xylene(108-38-3)		
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 Ethyl Ketone(78-93-3)		
USA ACGIH	ACGIH STEL (ppm)	300 ppm
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	100 ppm
USA OSHA	OSHA PEL TWA (mg/m3)	410 mg/m3
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
Propane Blend(74-98-6)	<u></u>	
ACGIH	ACGIH	N/E
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
USA OSHA	OSHA PEL (TWA) mg/m3	1800 mg/m3
Titanium Dioxide(13463-67-7)	1	
PEL (Permissible Exposure Limit)	OSHA TWA	15 mg/m3
TLV	ACGIH TWA	10 mg/m3
Toluene(108-88-3)		
USA ACGIH	ACGIH TWA	20 ppm
USA NIOSH	NIOSH REL (ST)	150 ppm, 560 mg/m3
USA NIOSH	NIOSH REL TWA	100 ppm, 375 mg/m3
USA OSHA	OSHA STEL (PO)	150 ppm, 560 mg/m3
USA OSHA	OSHA TWA (PO)	100 ppm, 375 ppm
USA OSHA	OSHA TWA (Table Z-2)	200 ppm
VM&P Naphtha(64742-89-8)	1	1
USA OSHA	OSHA TWA (Table PO)	400 ppm, 1,600 mg/m3
USA OSHA	OSHA TWA (Table Z-1)	500 ppm, 2,000 mg/m3
Xylene(1330-20-7)	I	1 . = 0
USA ACGIH	ACGIH STEL	150 ppm
USA ACGIH	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	:	-44.0 deg F TO 334.0 deg F
Flash point	:	-154.00 deg F
Lower explosion limit	:	.8
Upper explosion limit	:	12.8
Vapor pressure	:	185 mm Hg
Vapor density	:	Heavier than air
Relative density	:	No data available.
Density	:	6.3912
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

Acetone(67-64-1)	
Aspiration toxicity	Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above TLV value may cause narcotic effects., Solvents may degrease the skin.
Carcinogenicity	Species: mouse, (female), Application Route: Dermal; Exposure time: .365 d (90%) or 424 d (100%), Dose: 0.1ml 90(71mg) or 100% (79mg), Frequency of Treatment: 3 times a wk, NOAEL: 79; Result: did not display carcinogenic properties., Carcinogenicity-Assessment: Not classified as a human carcinogen.
Germ cell mutagenicity	Test Type: mammalian cell gene mutation assay. Test species: Mouse Lymphoma, Metabolic activation: Without metabolic activation; Method: OECD Guideline 476; Result: negative; Test Type: Ames test, Metabolic activation: Without metabolic activation; Method: OECD Guideline 471; Result: negative, Test Type: Chromosome aberration test in vitro, Test species: Chinese hamster ovary (CHO), Metabolic activation: Without metabolic activation; Method: OECD Guideline 473; Result: negative; Genotoxicity in vivo: Test Type: I vivo micronucleus test. Test species: Mouse, Application Route: Oral, Exposure: 13 wk, Dose: 5,000, 10,000, 20,000 ppm, Result: negative
Germ cell mutagenicity	Animal testing did not show any mutagenic effects.
Assessment	
LC50 (rat) Inhalation	76 mg/l (4 h exposure)
LD50 (rat) Oral	5,800 mg/kg; Symptoms: tremors
LD50 Dermal	>7,426 mg/kg
Repeated dose exposure	Species: mouse, male, NOAEL: 20,000, Application Route: Oral, Exposure time: 13 wk, Number of exposures: daily, Dose: 1250, 2500, 5000, 10000, 20000, Method OECD Test Guideline 408, GLP: No data available.; Species: mouse, female, NAOEL 20000, LAOEL: 50000; Application Route: Oral, Exposure time: 13 wk, Number of exposures: daily, Dose: 1250, 2500, 5000,

	10000, 20000, Method OECD Test Guideline 408, GLP: No data available; Repeated dose toxicity
	Assessment: causes mild skin irritation., Causes serious eye irritation.
Reproductive toxicity	Effects on fertility: Species: rat, male; Application Route: oral; Dose: 0, 5,000, 10,000 mg/l; Frequency of Treatment: 7 days/week; General Toxicity - Parent: LOAEL: 10,000; Fertility: 10,000; Effects on fetal development: Species: rat; Application Route: Inhalation; Dose: 0, 440, 2200, 11,000 ppm; Frequency of Treatment: 7 days/week; General Toxicity Material: NOAEC: 2,200 ppm; Tetragenicity: NOAEC: 2,200 ppm; Embryo-fetal toxicity:: NOAEC: 2,200 ppm; Result: No teratogenic potential. GLP: No data Available. Reproductive toxicity Assessment: Did not show teratogenic effects in animal experiments.
Respiratory or skin	Test type: Maximization test, Species: guinea pig, Assessment: Does not cause skin
sensitsation Serious eye	sensitization. Result: Did not cause sensitization on laboratory animals. Species: rabbit, Result: Slightly irritating to eyes, Exposure time: 24 h, Classification: Irritating
damage/eye irritation	to eyes, Remarks: Eye irritation.
Skin corrosion/irritation	Species: rabbit, Exposure time: 24 h, Classification: Not irritating to skin, Method: In vivo, Result: Mild irritation, Remarks: Repeated or prolonged contact with the mixture may cause removal natural fat from the skin resulting in desiccation of the skin.
STOT - single exposure	Exposure routes: Inhalation (vapor); Assessment: May cause drowsiness or dizziness.
STOT- repeated exposure	No data available.
Aluminum Hydroxide(216	645-51-2)
Additional Information	RTECS: BD0940000 Nausea, Vomiting, and Constipation.
Aspiration hazard	No data available.
Carcinogenicity	IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Dermal	No data available.
Germ cell mutagenicity	Mouse lymphocyte Result- negative Mutagenicity (micronucleus test) Rat - male Result: negative
Inhalation LD50 Oral - Rat -	No data available. >5,000 mg/kg, Oral - Rat - female
female - Acute toxicity	23,000 flig/kg, Ofal - Kat - Terriale
Reproductive toxicity	No data available.
Respiratory or skin	Maximization Test (GPMT) - Guinea pig Result- Does not cause skin sensitization.(OECD Test
sensitization Serious eye	Guideline 406) Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)
damage/eye irritation	Lyes - Rabbit Result. No eye irritation (OLCD Test Guideline 403)
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
Specific target organ toxicity - repeated exposure	No data available.
toxicity - single exposure	No data available.
Amorphous Silica(7631-8	
Additional toxicological information	The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and information provided to us.
Irritant of skin	Not irritating (rabbit) (OCED 404)
Irritatant of eyes LC0 - Inhalative	Not irritating (rabbit) (OCED 405) >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)
Benzene(71-43-2)	
Aspiration toxicity	May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
Carcinogenicity	Species: rat Sex: female Dose: 0, 25, 50, 250 mg/kg Exposure time: 103 wks Number of exposures: daily, 5 days/week Test substance: yes Remarks: zymbal gland carcinomas, squamous cell papillomas Species: rat Sex: male Dose: 0, 50, 100, 200 mg/kg Exposure time: 103 wks Number of exposures: daily, 5 days/week Test substance: yes Remarks: zymbal gland carcinomas, squamous cell papillomas Species: mouse Sex: male and female Dose: 25, 50, 100 mg/kg Exposure time: 103 wks Number of exposures: daily, 5 days/week Test substance: yes Remarks: Clear evidence of multiple organ carcinogenicity.

CMR effects	Carcinogenicity: Human carcinogen. Mutagenicity: In vivo tests showed mutagenic effects Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: Animal testing did not show any effects on fertility.
Eye irritation	May cause irreversible eye damage.
Further information	Chronic Health Hazard. Solvents may degrease the skin.
LC50 Dermal	44.5 mg/l Exposure time: 4 h Species: rat Sex: Not Specified Test atmosphere: vapor
LD50	> 8,260 mg/kg Species: rabbit
LD50 Oral	> 2,000 mg/kg Species: rat Sex: female
Repeated dose toxicity	Species: rat, female Sex: female. Application Route: oral gavage Dose: 0, 25, 50, 100 mg/kg Exposure time: 103 wk Number of exposures: 5 d/wk NOEL: < 25 mg/kg Lowest observable effect level: 25 mg/kg Species: rat, male Sex: male Application Route: oral gavage Dose: 0, 50, 100, 200 mg/kg Exposure time: 103 wk Number of exposures: 5 d/wk NOEL: < 50 mg/kg Lowest observable effect level: 50 mg/kg Species: mouse Application Route: oral gavage Dose: 0, 25, 50,100 mg/kg Exposure time: 103 wk NOEL: < 25 mg/kg
Sensitization	Did not cause sensitization on laboratory animals.
Skin irritation	May cause skin irritation in susceptible persons.
Carbon Black(1333-86-4	1)
ACGIH	ACGIH The American Conference of Governmental Industrial Hygienists classifies carbon black as A4, Not Classifiable as a Human Carcinogen.
Carcinogenicity Classification	GHS- Not a hazardous substance or preparation according to the Global Harmonized System (GHS).
Human Epidemiology	Results of epidemiological studies of carbon black production workers suggest that cumulative exposure to carbon black may result in small decrements in lung function, as measured by FEV1. A recent U.S. respiratory morbidity study suggested a 27 mL decline in FEV1 from a 1 mg/m3 (inhalable fraction) exposure over a 40-year period. An older European investigation suggested an exposure to 1 mg/m3 (inhalable fraction) of carbon black over a 40-year working-lifetime will result in a 48 mL decline in FEV1. In contrast, normal age related decline over a similar period of time would be approximately 1200 ml. The relationship between symptoms and exposure to carbon black is less clear. In the U.S. study, 9% of the highest exposure group (in contrast to 5% of the unexposed group) reported symptoms consistent with chronic bronchitis. In the European study, methodological limitations in the administration of the questionnaire limit the drawing of definitive conclusions about symptoms.
Human Epidemiology -	Since this IARC evaluation of carbon black, Sorahan and Harrington 16) re-analyzed the UK
cont	study data using an alternative exposure hypothesis and found a positive association with carbon black exposure in two of the five plants. The same exposure hypothesis was applied by Morfeld and McCunney 17-18) to the German cohort; in contrast, they found no association between carbon black exposure and lung cancer risk and, thus, no support for the alternative exposure hypothesis used by Sorahan and Harrington 16).
Human Epidemiology - cont.	Morfeld and McCunney 19) applied a Bayesian approach to unravel the role of uncontrolled confounders and identified smoking and prior exposure to occupational carcinogens received before being hired in the carbon black industry as main causes of the observed lung cancer excess risk. Overall, as a result of these detailed investigations, no causative link between carbon black exposure and cancer risk in humans has been demonstrated. This view is consistent with the IARC evaluation in 2006. Several epidemiological and clinical studies of workers in the carbon black production industries show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black. No dose response relationship was observed in workers exposed to carbon black.
Human Epidemiology - cont.	This study, however, indicated a link between carbon black and small opacities on chest films, with negligible effects on lung function. A study on carbon black production workers in the UK 10) found an increased risk of lung cancer in two of the five plants studied; however, the increase was not related to the dose of carbon black. Thus, the authors did not consider the increased risk in lung cancer to be due to carbon black exposure. A German study of carbon black workers at one plant 11-14) found a similar increase in lung cancer risk but, like the 2001 UK study 10), found no association with carbon black exposure. In contrast, a large US study 15) of 18 plants showed a reduction in lung cancer risk in carbon black production workers. Based upon these studies, the February 2006 Working Group at IARC concluded that the human evidence for carcinogenicity was inadequate 1).
IARC LD50 (Rat) Mutagenic Effects and	IARC In 1995 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity of carbon black." Based on rat inhalation studies IARC concluded that there is, "sufficient evidence in experimental animals for the carcinogenicity of carbon black," IARC's overall evaluation was that, "Carbon black is possibly carcinogenic to humans (Group 2B)". This conclusion was based on IARC's guidelines, which require such a classification if one species exhibits carcinogenicity in two or more studies. IARC performed another review in 2006, and again classified carbon black as possibly carcinogenic to humans (Group 2B). In its 1987 review IARC concluded, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black extracts." Carbon black extracts are classified as, possibly carcinogenic to humans (Group 2B). >8000 mg/kg In an experimental investigation, mutational changes in the hurt gene were reported in alveolar
Germ Cell Mutagenicity	epithelial cells in the rat following inhalation exposure to carbon black. This observation is

	believed to be rat specific and a consequence of "lung overload" which led to chronic inflammation and release of genotoxic oxygen species. This mechanism is considered to be a secondary genotoxic effect and thus, carbon black itself would not be considered to be mutagenic. Carbon black is not suitable to be tested in bacterial (Ames test) and other in vitro systems because of its insolubility in aqueous solutions. When tested, however, results for carbon black showed no mutagenic effects. Organic solvent extracts of carbon black can, however, contain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the bioavailability of these PAHs showed that PAHs are very tightly bound to carbon black and not bioavailable.
NIOSH	NIOSH The U.S. National Institute of Occupational Safety and Health (NIOSH) 1978 criteria document on carbon black recommends that only carbon blacks with PAH contaminant levels greater than 0.1% require the measurement of PAHs in air. As some PAHs are possible human carcinogens, NIOSH recommends an exposure limit of 0.1 mg/m3 for PAHs in air, measured as the cyclohexane-extractable fraction.
NTP	NTP Carbon black is not designated a carcinogen by the U.S. National Toxicology Program (NTP), the U.S. Occupational Safety and Health Administration (OSHA) or the European Union (EU).
Reproductive and Teratogenic Effects	No experimental studies on effects of carbon black on fertility and reproduction have been located. However, based on toxicokinetic data, carbon black is deposited in the lungs and based on its specific physicochemical properties (insolubility, low absorption potential), it is not likely to distribute in the body to reach reproductive organs, embryo and/or fetus under in vivo conditions. Therefore, no adverse effects of carbon black to fertility/reproduction or to fetal development are expected. No effects have been reported in long-term animal studies.
Sensitization	No animal data is available. No cases in humans have been reported.
STOT- repeated exposure	Therefore, no STOT, Repeated exposure classification is made.
STOT- single exposure	Inhalation studies with the rat showed lung effects (see Section 11.2 and 11.3), these effects are believed to be the effects of "lung overload" 1 and these effects are believed to be specific to the species. In addition, the European CLP Regulation states that no classification is necessary if the mechanism is not relevant to humans. 4) Also, the CLP Guidance on classification and labeling states that the "lung overload" mechanism is not relevant to humans. 4) Therefore, no STOT, Repeated Exposure classification is made
Ethyl Alcohol(64-17-5)	
Additional Information	RTECS: KQ6300000 Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Heart - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence
Aspiration hazard	No data available.
Carcinogenicity - Mouse - Oral	Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease. IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No components 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 components 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	No data available.
LC50 Inhalation - Rat	20000 ppm, (10 h)
LD50 Oral - Rat	7,060 mg/kg , Remarks: Lungs, Thorax, or Respiration: Other changes.
Reproductive toxicity	No data available. Reproductive toxicity - Human - female - Oral Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects. Effects on Newborn: Drug dependence.
Respiratory or skin sensitization	No data available.
Serious eye damage/eye irritation Eyes Rabbit	Result: Mild eye irritation - 24 h (OECD Test Guideline 405)
Skin corrosion/irritation Skin - Rabbit	Result: No skin irritation - 24 h (OECD Test Guideline 404)
Specific target organ toxicity - repeated exposure	No data available.
Specific target organ toxicity - single exposure	No data available.
Ethylene glycol mono bu	ityl ether(111-76-2)
Aspiration toxicity	Remarks: No data available.
Carcinogenicity	Species mouse, Application Route: Inhalation, Exposure time 2 yr, Activity duration: 6 h, Frequency of Treatment: 5 days/week, NAOEL: 125 ppm Result: Limited evidence of carcinogenic effects with no relevance to humans., Carcinogenicity-Assement: Not evidence of

	any sing a principal in a principal abunding
Further information	carcinogenicity in animal studies Product Remarks: Symptoms of overexposure may be headache, diaainess, titedness, nausea and vomiting.,
Germ cell mutagenicity	Genotoxicity in vitro: Test Type: Mammalian cell gene mutation assay; Test species: Chineese hamster (CHO), Metabolic activation: with and without metabolic activation. Result: negative., Genotoxicity in vivo: Test Type: In vivo micronucleus test., Test species:: mouse (male), application Route: Intraperitoneal, Result: negative., Germ cell mutagenicity Assessment: Tests on bacterial or mammalian did not show mutagenic effects.
LC50 (rat) inhalation	Acute inhalation toxicity: 500 ppm, Exposure time: 4 h; Assessment: the component/mixture is moderately toxic after short term inhalation.
LC50 (rat) Oral	Acute toxicity estimate: 500 mg/kg; Method: Expert judgment.; Assessment: the component/mixture is moderately toxic after single ingestion.
LD50 (rat) dermal	Acute toxicity estimate: 1,1000 mg/kg; Method: Expert judgment; Assessment: the component/mixture is moderately toxic after single contact with skin.
Repeated dose toxicity	Species: rat NOAEL: 30, Application Route: Inhalation Exposure time: 14 wk Number of exposures: 6 h/d, 5 d/wk.
Reproductive toxicity	Effects on fertility: Test Type: Two-generation study Species: mouse Application Route: oral Fertility: NOAEL: 720 mg/kg body weight Symptoms: Reduced fertility Result: Reduced fertility at maternally toxic doses Effects on fetal development: Test Type: Embryo-fetal development Species: rat Application Route: Inhalation Duration of Single Treatment: 10 d Frequency of Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments
Respiratory or skin sensitsation	Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals.
Serious eye damage/ eye irritation	Species rabbit, Exposure time 24 h, Result: Irritating to eyes.
Skin	Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h,
corrosion/irritation STOT - repeated	Result: Mild skin irritation No data available.
exposure	No data available.
STOT - single exposure	No data available.
Isobutyl Acetate(110-19	-0)
Aspiration hazard	No data available.
Carcinogenicity	No data available.
LC50 Inhalation	No data available
LD50 (Rabbit) Dermal LD50 (Rat) Oral	> 17,400 mg/kg 3,200 - 6,400 mg/m3
Mutagenicity	In vitro Product: Salmonella typhimurium assay (Ames test), : negative +/- activation In vivo Product: Chromosomal aberration, oral: gavage (Mouse): Read-across from a similar material.
Other adverse effects	No data available.
Repeated dose toxicity	
B 1	NOEL (Rat, Oral Study, 92 d): 316 mg/kg Read-across from a similar material.
Reproductive toxicity Respiratory or skin	NOEL (Rat, Oral Study, 92 d): 316 mg/kg Read-across from a similar material. No data available. Skin Sensitization:, (Guinea Pig) - non-sensitizing.
Respiratory or skin sensitization Serious eye	No data available.
Respiratory or skin sensitization Serious eye damage/eye irritation Skin	No data available. Skin Sensitization:, (Guinea Pig) - non-sensitizing.
Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure	No data available. Skin Sensitization:, (Guinea Pig) - non-sensitizing. (Rabbit): none (Rabbit, 4 h): none No data available.
Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure	No data available. Skin Sensitization:, (Guinea Pig) - non-sensitizing. (Rabbit): none (Rabbit, 4 h): none No data available. No data available.
Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Isopropyl Alcohol(67-63-	No data available. Skin Sensitization:, (Guinea Pig) - non-sensitizing. (Rabbit): none (Rabbit, 4 h): none No data available. No data available.
Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Isopropyl Alcohol(67-63-Aspiration hazard	No data available. Skin Sensitization:, (Guinea Pig) - non-sensitizing. (Rabbit): none (Rabbit, 4 h): none No data available. No data available. o) Based on physico-chemical values or lack of human evidence, not classified.
Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Isopropyl Alcohol(67-63-Aspiration hazard Carcinogenicity	No data available. Skin Sensitization:, (Guinea Pig) - non-sensitizing. (Rabbit): none (Rabbit, 4 h): none No data available. No data available. o) Based on physico-chemical values or lack of human evidence, not classified. Not classified.
Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Isopropyl Alcohol(67-63-Aspiration hazard Carcinogenicity Effects on	No data available. Skin Sensitization:, (Guinea Pig) - non-sensitizing. (Rabbit): none (Rabbit, 4 h): none No data available. No data available. o) Based on physico-chemical values or lack of human evidence, not classified.
Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Isopropyl Alcohol(67-63-Aspiration hazard Carcinogenicity	No data available. Skin Sensitization:, (Guinea Pig) - non-sensitizing. (Rabbit): none (Rabbit, 4 h): none No data available. No data available. o) Based on physico-chemical values or lack of human evidence, not classified. Not classified.
Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Isopropyl Alcohol(67-63-Aspiration hazard Carcinogenicity Effects on Development	No data available. Skin Sensitization:, (Guinea Pig) - non-sensitizing. (Rabbit): none (Rabbit, 4 h): none No data available. No data available. No data available. -0) Based on physico-chemical values or lack of human evidence, not classified. Not classified. Not classified. Not classified No adverse effect observed. 46.6 mg/l; Exposure time: 8 h, Acute inhalation toxicity: Based on acute toxicity values, not classified. High vapor concentrations may cause irritation of the eyes, nose, and/or throat, changes to the liver, lung, spleen, and brain, and central nervous system depression (ataxia, dizziness, narcosis, and muscle relaxation, with respiratory arrest and death in cases of severe
Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Isopropyl Alcohol(67-63-Aspiration hazard Carcinogenicity Effects on Development Germ cell mutagenicity	No data available. Skin Sensitization:, (Guinea Pig) - non-sensitizing. (Rabbit): none (Rabbit, 4 h): none No data available. No data available. -0) Based on physico-chemical values or lack of human evidence, not classified. Not classified. Not classified. Not classified No adverse effect observed. 46.6 mg/l; Exposure time: 8 h, Acute inhalation toxicity: Based on acute toxicity values, not classified. High vapor concentrations may cause irritation of the eyes, nose, and/or throat, changes to the liver, lung, spleen, and brain, and central nervous system depression (ataxia,

	cause gastrointestinal effects (pain, nausea, vomiting, and hemorrhage), hypothermia, cardiac effects (low blood pressure, shock and cardiac arrest), liver changes, kidney damage, and CNS effects (headache, dizziness, sleepiness, coma and death).
Reproductive toxicity	Effects on fertility / Effects on or via lactation: Not classified.
Respiratory or skin	Not classified No adverse effect observed.
sensitization	
Serious eye	Classified Causes serious eye irritation.
damage/eye irritation	
Skin corrosion/irritation	Based on skin irritation values, not classified. Liquid may cause slight skin irritation. Exposure of liquid to the underdeveloped skin of premature infants may cause severe irritation.
Target Organ Systemic Toxicant - Repeated exposure	Based on repeated exposure toxicity values, not classified.
Target Organ Systemic	Routes of exposure: Ingestion, Inhalation Target Organs: Central nervous system Classified,
Toxicant - Single exposure	May cause drowsiness or dizziness.
Meta-Xylene(108-38-3)	
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 carcinogen or potential carcinogen by OSHA.
Germ cell mutagenicity	No data available.
LC50 Inhalation (Rat, Male)	6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.)
LD50 Dermal (Rabbit, Male)	12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2). No data available.
LD50 Oral (Rat, Male)	6,602 mg/kg (OECD Test Guideline 401)
Reproductive toxicity	Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
Respiratory or skin sensitization	Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429)
Serious eye damage/eye irritation	Eyes - Rabbit Result: Severe eye irritation - 24 h
Skin corrosion/irritation	Skin - Rabbit Result: Skin irritation - 24 h
Specific target organ toxicity - repeated exposure	No data available.
toxicity - single	Inhalation - May cause respiratory irritation.
exposure Methyl Ethyl Ketone(78-	03-3)
Aspiration toxicity	Product: May be harmful if swallowed and enters airways.
Carcinogenicity	Remarks: This information is not available, Carcinogenicity-Assement: Not classified as a human carcinogen.
Further information	Product Remarks: Symptoms of overexposure may be headache, diaainess, titedness, nausea and vomiting.,
Germ cell mutagenicity	Genotoxicity in vitro: Test Type: Ames test, Metabolic activation: with and without metabolic activation, Method OECD Test Guideline 471
LC50 (mouse) inhalation	320 mg/l (4 h exposure)
LC50 (rat) Oral	3737 mg/kg
LD50 (rabbit) dermal	6,480 mg/kg
Reproductive toxicity	Effects on fetal development, Species: rat female, Application Route: Inhalation, Dose: 400, 1000, 3000 ppm,
Respiratory or skin sensitsation	Test Type: Buehler Test, Species guinea pig, Method OECD Test Guideline 406, Result: Did not cause sensitization on laboratory animals.
Serious eye damage/ eye irritation	Remarks: Severe skin irritation, Species rabbit, Exposure time 24 h, Result: Irritation to eyes
Skin corrosion/irritation	Remarks: Moderate skin irritation, Species rabbit, Exposure time 24 h, Result: Mild skin irritation
STOT - repeated exposure	Product: No data available, Components: No data available.

Aspiration hazard Carcinogenicity This product its IARC, AC carcinogenic greater than No compone carcinogen or a carcinogenicity Dermal - No data ava Ames test S	almonella typhimurium Result: negative /m3, Rat - male - 6 h g, Mouse ilable. ilt: Does not cause skin sensitization. (OECD Test Guideline 429) ilable. t Result: Irritating to skin 24 h
Aspiration hazard Carcinogenicity Aspiration hazard Carcinogenicity This product its IARC, AC carcinogenic greater than No compone carcinogen of the car	ression, Dermatitis, Gastrointestinal disturbance, Liver injury may occur., Kidney occur., Blood disorders Nerves if swallowed and enters airways. is or contains a component that is not classifiable as to its carcinogenicity based on GIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its ity to humans (o-Xylene) NTP: No component of this product present at levels or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: and of this product present at levels greater than or equal to 0.1% is identified as a propotential carcinogen by OSHA. illable. almonella typhimurium Result: negative 1/m3, Rat - male - 6 h illable.
Carcinogenicity This product its IARC, AC carcinogenic greater than No compone carcinogen or Carcinogenicity Dermal - No data ava Ames test S > 18,800 mg LC50 - Intraperitoneal - 1,364 mg/kg No data ava Carcinogenicity - Skin Sensitization Serious eye Adamage/eye irritation Serious eye Adamage/eye irritation Skin Skin Skin - Rabbic Corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Para-Xylene(106-42-3) Additional Information RTECS: ZE2 system deprocur, Blood Irregularities Aspiration hazard No data ava Carcinogenicity IARC: 3 - Gromponent of Carci	is or contains a component that is not classifiable as to its carcinogenicity based on GIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its city to humans (o-Xylene) NTP: No component of this product present at levels or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: ant of this product present at levels greater than or equal to 0.1% is identified as a protential carcinogen by OSHA. iilable. almonella typhimurium Result: negative 1/m3, Rat - male - 6 h g, Mouse iilable.
its IARC, AC carcinogenic greater than No compone carcinogen of No data ava Germ cell mutagenicity	GIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its city to humans (o-Xylene) NTP: No component of this product present at levels or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: ant of this product present at levels greater than or equal to 0.1% is identified as a protential carcinogen by OSHA. idealiable. almonella typhimurium Result: negative 1/m3, Rat - male - 6 h g, Mouse 1/m3, Rat - male - 6 h gl: Does not cause skin sensitization. (OECD Test Guideline 429) idable. It: Does not cause skin sensitization 24 h
Germ cell mutagenicity LC50 - Inhalation - Rat - Male LD50 - Intraperitoneal - Mouse - Oral - Acute Toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Para-Xylene(106-42-3) Additional Information Aspiration hazard Carcinogenicity Germ cell mutagenicity Nems test S >18,800 mg 1,364 mg/kg No data ava Mouse Resul Mouse Resul Skin - Rabbi Skin - Rabbi No data ava No data ava No data ava RTECS: ZE2 system deproccur., Blood Irregularities Aspiration hazard No data ava Carcinogenicity IARC: 3 - Gr component of known or an greater than Germ cell mutagenicity No data ava 4,550 ppm,	almonella typhimurium Result: negative I/m3, Rat - male - 6 h IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
LC50 - Inhalation - Rat - Male LD50 - Intraperitoneal - Mouse - Oral - Acute Toxicity No data ava Reproductive toxicity No data ava Mouse Results No data ava No data Av	n/m3, Rat - male - 6 h g, Mouse ilable. ilable. It: Does not cause skin sensitization. (OECD Test Guideline 429) ilable. t Result: Irritating to skin 24 h
LC50 - Inhalation - Rat - Male LD50 - Intraperitoneal - Mouse - Oral - Acute Toxicity No data ava Reproductive toxicity No data ava Mouse Results No data ava No data Av	n/m3, Rat - male - 6 h g, Mouse ilable. ilable. It: Does not cause skin sensitization. (OECD Test Guideline 429) ilable. t Result: Irritating to skin 24 h
- Mouse - Oral - Acute Toxicity Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Para-Xylene(106-42-3) Additional Information Aspiration hazard Carcinogenicity RTECS: ZE2 system deproccur., Blood Irregularities Aspiration hazard Carcinogenicity IARC: 3 - Gr component of known or an greater than Germ cell mutagenicity No data ava	ilable. ilable. It: Does not cause skin sensitization. (OECD Test Guideline 429) ilable. t Result: Irritating to skin 24 h
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 Para-Xylene(106-42-3) Additional Information Aspiration hazard Carcinogenicity RTECS: ZE2 system deproccur., Blood Irregularities Aspiration hazard Carcinogenicity IARC: 3 - Gr component of known or an greater than Germ cell mutagenicity No data ava 4,550 ppm,	ilable. It: Does not cause skin sensitization. (OECD Test Guideline 429) ilable. t Result: Irritating to skin 24 h
Respiratory or skin sensitization Serious eye damage/eye irritation Skin Skin - Rabbi Skin - Rabbi Corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Para-Xylene(106-42-3) Additional Information Aspiration hazard Carcinogenicity RTECS: ZE2 system deproccur., Blood Irregularities No data ava Carcinogenicity IARC: 3 - Gricomponent of known or an greater than Germ cell mutagenicity No data ava LC50 - Inhalation - Rat 4,550 ppm,	lt: Does not cause skin sensitization. (OECD Test Guideline 429) ilable. t Result: Irritating to skin 24 h
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damage/eye irritation Skin Skin - Rabbi corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Para-Xylene(106-42-3) Additional Information Aspiration hazard Carcinogenicity Germ cell mutagenicity IARC: 3 - Gr component of known or an greater than Germ cell mutagenicity No data ava 4,550 ppm,	t Result: Irritating to skin 24 h
corrosion/irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Para-Xylene(106-42-3) Additional Information Aspiration hazard Carcinogenicity Carcinogenicity Germ cell mutagenicity RTECS: ZE2 system deprocur., Blood Irregularities Aspiration hazard known or an greater than Germ cell mutagenicity No data ava LC50 - Inhalation - Rat No data ava	·
toxicity - repeated exposure Specific target organ toxicity - single exposure Para-Xylene(106-42-3) Additional Information Aspiration hazard Carcinogenicity Carcinogenicity Germ cell mutagenicity RTECS: ZE2 system deproccur., Blood Irregularities No data ava component of known or an greater than Germ cell mutagenicity No data ava 4,550 ppm,	ilable.
toxicity - single exposure Para-Xylene(106-42-3) Additional Information RTECS: ZE2 system depr occur., Blood Irregularities Aspiration hazard No data ava Carcinogenicity IARC: 3 - Gr component of known or an greater than Germ cell mutagenicity No data ava LC50 - Inhalation - Rat 4,550 ppm,	
Para-Xylene(106-42-3) Additional Information RTECS: ZE2 system depr occur., Blood Irregularities Aspiration hazard No data ava Carcinogenicity IARC: 3 - Gr component of known or an greater than Germ cell mutagenicity No data ava LC50 - Inhalation - Rat 4,550 ppm,	ilable.
system deprocur, Blood Irregularities Aspiration hazard No data ava Carcinogenicity IARC: 3 - Gromponent of known or an greater than Germ cell mutagenicity No data ava LC50 - Inhalation - Rat 4,550 ppm,	
Carcinogenicity IARC: 3 - Gromponent of known or an greater than Germ cell mutagenicity No data ava LC50 - Inhalation - Rat 4,550 ppm,	625000 narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous ression, Gastrointestinal disturbance, Liver injury may occur., Kidney injury may disorders Stomach - Irregularities - Based on Human Evidence Stomach - s - Based on Human Evidence.
component of known or an greater than Germ cell mutagenicity No data ava LC50 - Inhalation - Rat 4,550 ppm,	
Germ cell mutagenicity No data ava LC50 - Inhalation - Rat 4,550 ppm,	roup 3: Not classifiable as to its carcinogenicity to humans (p-Xylene) NTP: No of this product present at levels greater than or equal to 0.1% is identified as a dicipated carcinogen by NTP. OSHA: No component of this product present at levels or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
	Rat - 4 h
LD50 - Oral - Rat - 5,000 mg/m Acute toxicity	3, Oral - Rat
LD50 - Oral - Rat -Male 3,253 mg/kg	g, Oral - Rat - Male
Reproductive toxicity No data ava	ilable. May cause reproductive disorders.
Respiratory or skin No data ava sensitization	
Serious eye No data ava damage/eye irritation	
corrosion/irritation	t Result: Moderate skin irritation - 4 h
Specific target organ toxicity - repeated exposure	ilable.
Specific target organ No data ava toxicity - single exposure	ilable.
Phenylethane(100-41-4)	
	if swallowed and enters airways.
	use, (male and female) Application Route: Inhalation Exposure time: 103 wk

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 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 sensitization	Remarks: No data available
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.
Propane Blend(74-98-6)	
Aspiration	No end point data for material. Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.
Carcinogenicity	No end point data for material. Not expected to cause cancer.
Eye	Serious Eye Damage/Irritation: No end point data for material. , May cause mild, short-lasting discomfort to eyes.
Germ Cell Mutagenicity	Data available. Not expected to be a germ cell mutagen. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 471
Ingestion	N/A
Lactation	No end point data for material. Not expected to cause harm to breast-fed children.
Control of the contro	May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite (cold burn). Very high exposure (confined spaces / abuse) to light hydrocarbons may result in abnormal heart rhythm (arrhythmias). Concurrent high stress levels and/or co-exposure to high levels of hydrocarbons (above occupational exposure limits), and to heart-stimulating substances like epinephrine, nasal decongestants, asthma drugs, or cardiovascular drugs may initiate arrhythmias. Simple asphyxiant: Acts by displacing oxygen in the lungs thereby diminishing the supply of oxygen available to the blood and tissues. Symptoms include shortness of breath, rapid heart rate, in coordination, lethargy, headaches, nausea, vomiting, and disorientation. Continued lack of oxygen may result in convulsions, loss of consciousness and death. Since exercise increase
Reproductive Toxicity	Data available. Not expected to be a reproductive toxicant. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 422
Sensitization	No end point data for material. Not expected to be a respiratory sensitizer.
Skin Specific Target Organ Toxicity (STOT) Repeated Exposure	N/A Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 422
Specific Target Organ Toxicity (STOT) Single Exposure:	No end point data for material. Not expected to cause organ damage from a single exposure.
Titanium Dioxide(13463	-67-7)
Carcinogenicity	In lifetime inhalation studies rats were exposed for 2 years to respectively 10, 50, 250 mg/m3 of

	respirable Ti02.
Dermal ALD (rabbit)	>10000 mg/m3
Eye irritation	slight irritation
Inhalation 4 h ALC	>6.82 mg/l
ORAL ALD (rat)	>2400 mg/kg
Sensitsation	Did not cause sensitsation on laboratory animals.
Skin irritation	slight irritation
Toluene(108-88-3)	Assignation Tayleity, Category 1
Aspiration toxicity	Aspiration Toxicity - Category 1
Carcinogenicity	Species: rat, (male and female) Application Route: inhalation (vapor) Exposure time: 103 wks Dose: 0, 600, 1200 ppm Frequency of Treatment: 6.5 h/d, 5 d/wk NOAEL: No observed adverse effect level: 1,200 ppm Method: OECD Test Guideline 453 Result: did not display carcinogenic properties Symptoms: Erosion of nasal epithelium Species: rat, (male and female) Application Route: inhalation (vapor) Exposure time: 103 wks Dose: 0, 600, 1200 ppm Frequency of Treatment: 6.5 h/d, 5 d/wk NOAEL: No observed adverse effect level: 1,200 ppm Method: OECD Test Guideline 453 Result: did not display carcinogenic properties Symptoms: Erosion of nasal epithelium Species: rat, (male and female) Application Route: inhalation (vapor) Exposure time: 103 wks Dose: 0, 600, 1200 ppm Frequency of Treatment: 6.5 h/d, 5 d/wk NOAEL: No observed adverse effect level: 1,200 ppm Method: OECD Test Guideline 453 Result: did not display
	carcinogenic properties Symptoms: Erosion of nasal epithelium , GLP: yes, Carcinogen
Further information	Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
Germ cell mutagenicity	Genotoxicity in vitro: 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: Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative Genotoxicity in vivo: Test Type: Chromosome aberration assay in vivo Test species: rat Cell type: Bone marrow Application Route: Intraperitoneal Exposure time: 1 or 5 d Dose: 0, 0.025, 0.082, 0.247 ml/kg Result: negative Test Type: Dominant lethal assay Test species: mouse (male) Application Route: inhalation (vapor) Exposure time: 6 h/d, 5 d/wk for 8 wks Dose: 0, 100, 400 ppm Method: OECD Test Guideline 478 Result: negative Germ cell mutagenicity Assessment: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
LC50 (rat, male and female)	28.1 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403
LD50 (rabbit)	> 5,000 mg/kg
LD50 (rat, male)	> 5,580 mg/kg
Repeated dose toxicity	Species: mouse, male and female NOAEL: 625 mg/kg LOAEL: 1,250 mg/kg Application Route: Oral Exposure time: 13 wks Number of exposures: 5 d/wk Dose: 312, 625, 1250, 2500, 5000 Group: yes GLP: yes Symptoms: death, Increased liver weight, ataxia, hyperactivity, hypothermia Species: rat, male and female NOAEL: 300 Application Route: inhalation (vapor) Exposure time: 6, 12, or 18 months Number of exposures: 6 h/d, 5 d/wk Dose: 0, 30, 100, 300 ppm Method: OECD Test Guideline 453 Repeated dose toxicity - Assessment: Causes skin irritation.
Reproductive toxicity	Effects on fertility: Test Type: Two-generation study Species: rat, male and female Application Route: Inhalation Dose: 0, 100, 500, 2000 ppm Frequency of Treatment: 7 days/week General Toxicity - Parent: NOAEC: 500 ppm General Toxicity F1: NOAEC: 500 ppm Fertility: NOAEC: 2,000 ppm Symptoms: Reduced maternal body weight gain. Reduced offspring weight gain. Method: OECD Test Guideline 416 Result: Animal testing did not show any effects on fertility. GLP: yes Test Type: Fertility Species: rat, male and female Application Route: inhalation (vapor) Dose: 0, 600, 1200 ppm Frequency of Treatment: 7 days/week General Toxicity - Parent: NOAEC: 600 ppm Symptoms: Decreased sperm count Result: Animal testing did not show any effects on fertility.
Reproductive toxicity (cont.)	Effects on fetal development: Species: rat Application Route: inhalation (vapor) Dose: 0, 250, 750, 1500, 3000 ppm Duration of Single Treatment: 10 d Frequency of Treatment: 6 hr/day General Toxicity Maternal: NOAEC: 750 ppm Developmental Toxicity: NOAEC: 750 ppm Symptoms: Maternal toxicity, Reduced body weight, Skeletal malformations. GLP: yes Reproductive toxicity - Assessment: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.
Respiratory or skin sensitization	Test Type: Maximization Test (GPMT) Species: guinea pig Result: Did not cause sensitization on laboratory animals. GLP: yes
Serious eye	Species: rabbit Result: Irritating to eyes. Method: OECD Test Guideline 405
damage/eye irritation Skin	Species: rabbit Exposure time: 4 h Result: Irritating to skin.
corrosion/irritation	Tabalatian Auditama makana Fara M
STOT - repeated exposure	Inhalation Auditory system, Eyes May cause damage to organs through prolonged or repeated exposure., The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
STOT - single exposure	Exposure routes: Target Organs: Assessment: Remarks: Inhalation Central nervous system May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ

	toxicant, single exposure, category 3 with narcotic effects.
VM&P Naphtha(64742-8	
Aspiration toxicity	Aspiration Toxicity - Category 1
Carcinogenicity	Species: mouse, (male) Application Route: Dermal Exposure time: 102 wk Dose: 0.05 ml neat Method: OECD Test Guideline 453 Result: did not display carcinogenic properties GLP: No data available Remarks: Category 1B
Germ cell mutagenicity	Genotoxicity in vitro: Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: No data available: 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: no Genotoxicity in vivo: Test Type: In vivo micronucleus test Test species: rat (male and female) Application Route: Inhalation Exposure time: 6 hours/day Dose: 0, 2000, 10000, 20000 mg/m3 Result: negative GLP: yes Germ cell mutagenicity Assessment: Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.
LC50 Inhalation (rat, male and female)	7.6 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 GLP: yes
LD50 Dermal (rabbit, male and female)	> 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes
LD50 Oral (rat, male and female)	> 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Repeated dose toxicity	Species: rat, male NOAEL: < 500 mg/kg Application Route: Oral Exposure time: 4 wk Number of exposures: 5 d/wk Dose: 500 or 2000 mg/kg/day Symptoms: nephropathy 64742-89-8: Species: rat, male and female NOAEL: 1402 Application Route: inhalation (vapor) Test atmosphere: vapor Exposure time: 13 weeks Number of exposures: 6 hours/day, 5 days/week Material Safety Data Sheet VM&P Naphtha Version 1.2 Revision Date: 08/11/2014 MSDS Number: 100000002744 30 / 44 VM&P Naphtha Dose: 322, 1402, 9869 mg/m3 GLP: yes Target Organs: Kidney Symptoms: Nasal and ocular discharge.
Reproductive toxicity	Effects on fertility: Test Type: Two-generation study Species: rat, male and female Application Route: vapor Dose: 0, 5000, 10000, 20000 mg/m³ Duration of Single Treatment: 6 h Frequency of Treatment: 7 days/week General Toxicity - Parent: NOAEC: > 20,000 mg/m³ General Toxicity F1: NOAEC: > 20,000 mg/m³ Symptoms: No adverse effects. Method: OECD Test Guideline 416 GLP: yes Effects on fetal development: Species: rat Application Route: Inhalation Dose: 2653, 7960, 23900 mg/m³ Duration of Single Treatment: 6 h Frequency of Treatment: 7 days/week General Toxicity Maternal: NOAEL: 23,900 mg/m³ Embryo-fetal toxicity.: NOAEL: 23,900 mg/m³ Symptoms: No malformations were observed. Method: OECD Test Guideline 414 GLP: yes
Respiratory or skin sensitization	Test Type: Buehler Test Species: guinea pig Assessment: Does not cause skin sensitization. Result: Did not cause sensitization on laboratory animals. GLP: yes Remarks: not sensitizing.
Serious eye damage/eye irritation Skin	Species: rabbit Result: Not irritating to eyes Exposure time: 1 - 2 s Classification: Not irritating to eyes GLP: yes Remarks: No eye irritation Species: rabbit Exposure time: 4 h Classification: Irritating to skin Result: Irritating to skin GLP:
corrosion/irritation STOT - repeated	yes No data available.
STOT - single exposure	Exposure routes: Inhalation Target Organs: Central nervous system Assessment: May cause
Xylene(1330-20-7)	drowsiness or dizziness.
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) Inhalation	6700 ppm Exposure time: 4 h Method: Directive 67/548/EEC, Annex V, B.2. GLP: No data 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 any effects on fertility. Damage to fetus not classifiable
Respiratory or skin sensitization	Remarks: No data available
Serious eye damage/eye irritation	Species: rabbit Result: Mild eye irritation
Skin corrosion/irritation	Species: rabbit Exposure time: 24 h Result: Irritating to skin Remarks: Skin irritation, Category 2
STOT - repeated exposure	Target Organs: Liver, Kidney, Central nervous system Assessment: May cause damage to organs through prolonged or repeated exposure.
STOT - single exposure	No data available.

12. ECOLOGICAL INFORMATION

Acetone(67-64-1)	
Bioacculative potential	Parition coefficient: n-octanol/water: log Pow: -0.24
EC50 (Daphnia magna	7,630 mg/l (Exposure time 48 h); Test substance: Acetone
(Water flea))	
LC50 (Oncorhynchus	6,100 mg/l (Exposure time: 48 h)
mykiss (rainbow	
trout))	
Mobility in soil	No data available.
Other adverse effects	No data Available. Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances., Additional ecological information: No data available.
Persistence and degrability	Biodegrability: Remarks: No data available
Toxicity to algae	Remarks: No data available
Aluminum Hydroxide(21)	645-51-2)
Bioaccumulative potential	Inert material.
EC50 - Daphnia -	>10,000 mg/l, Daphnia magna (Water flea) (OECD Test Guideline 202)
Toxicity to daphnia and	,,
other aquatic	
invertebrates	
EC50 - Fish - Toxicity	>10,000 mg/l, Fish
ro fish	2
Mobility in soil	Inert material.
NOEC - Toxicity to algae	>0.004 mg/l, 72 h, Pseudokirchneriella subcapitata (algae) - (OECD Test Guideline 201)
Other adverse effects	None known.
Persistence and	Non-degradable
degradability	-
Amorphous Silica(7631-8	86-9)
Additional ecological	General notes: Do not allow product to reach ground water, water course or sewage system.
information	
Bioaccumulative potential	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	at every filtration and sedimentation process.
Benzene(71-43-2)	
Additional ecological	Toxic to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional
information	handling or disposal. Toxic to aquatic life.
EC50	10 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test substance: yes
Ecotoxicology	Method: OECD Test Guideline 202 Acute aquatic toxicity Benzene: Toxic to aquatic life. Chronic aquatic toxicity Benzene: Harmful
Assessment	to aquatic life with long lasting effects.
Assessifient	to aquate me with long lasting effects.

ErC50	100 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Test substance: yes Method: OECD Test Guideline 201
LC50	5.3 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) flow-through test
Persistence and	substance: yes Method: OECD Test Guideline 203 Biodegradability: This material is expected to be readily biodegradable.
degradability	
Results of PBT	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This
assessment Carbon Black(1333-86-4	substance is not considered to be very persistent nor very bioaccumulating (vPvB).
Behavior in water	Activated sludge, EC0 (3 h) > 800 mg/L. DEV L3 (TTC test)
treatment plants	rectivated stadge, 200 (5 H) > 000 Hig, E. DEV ES (110 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 vapor pressure is negligible. Based on these properties it is expected that carbon black will not occur in air or water in relevant amounts. Also potential for distribution via water or air can be dismissed. The deposition in soil or sediments is therefore the most relevant compartment of fate in the environment.
LC50 Brachydanio reio (zebrafish)	>1000 mg/l (96 h) OECD (Guideline 203)
NOEC 50	> 10,000 mg/L, OECD (Guideline 201)
(Scenedesmus subspicatus)	
Ethyl Alcohol(64-17-5)	
Bioaccumulative	No data available.
potential	
Mobility in soil	No data available.
Other adverse effects	No data available.
Persistence and degradability	No data available.
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
vPvB assessment	
Toxicity	No data available.
Ethylene glycol mono bu	
Bioaccumulative potential	Partition coefficient: n-octanol/water: log Pow: 0.83
EC50 (Algae)	911 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: no
EC50 (Daphnia)	1,800 mg/l(48 h; Daphnia magna (Water flea)): Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: no
LC50 (fish)	1,474 mg/l Pimephales promelas (Fathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no
Mobility in soil	No data available
Other adverse effects	No data available
Persistence and	Aerobic Inoculum: Activated sludge, domestic, adaption not specified, Result: Readily
degradability	biodegradable. Biodegradation: 90.4 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: no
Product	Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances:
Isobutyl Acetate(110-19	
Bioaccumulative potential Product	No data available.
Biological Oxygen Demand	BOD-5: 970 mg/g BOD-20: 1,300 mg/g
BOD/COD ratio	0.52 %
Chemical Oxygen Demand	1,870 mg/g
EC50 (Alga)	370 mg/l, (72 h, (Alga))
EC50 (Alga)	28.2 mg/l, (48 h, (Daphnis))
LC50 (Fish)	22.4 mg/l, (96 h, (Fathead minnow))
Mobility in soil	Known or predicted distribution to environmental compartments isobutyl acetate 1.193 - 1.844
	I (OSAP model)
NOEC (Alga)	(QSAR model)
NOEC (Alga) Other adverse effects	95 mg/l, (72 h, Alga))
NOEC (Alga) Other adverse effects Persistence and	(QSAR model) 95 mg/l, (72 h, Alga)) No data available. 81 % (20 d, Ready Biodegradability: Closed Bottle Test) Readily biodegradable

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degradability	
Results of PBT and	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent,
vPvB assessment	very bioaccumulative) criteria
Isopropyl Alcohol(67-63-	
Bioaccumulative	Bioaccumulation: Bioconcentration factor (BCF): 3.16 this material is not expected to
potential	bioaccumulate.
Ecotoxicology	Acute aquatic toxicity: Based on acute aquatic toxicity values, not classified. Chronic aquatic
Assessment	toxicity: Not classified, based on readily biodegradability and low acute toxicity.
Mobility in soil	Distribution among environmental compartments: Stability in water initially partitioning mainly
	to water and air. Stability in soil Volatilization from water or soil surfaces is expected to be
	limited. Additional advice Environmental fate and pathways: No additional information available.
Other adverse effects	No additional information available.
Additional ecological	
information	
Persistence and	Biodegradability: 86 - 94 % Rapidly degradable. (After two weeks in a ready biodegradability
degradability	test)
Results of PBT and	Not applicable.
vPvB assessment	
Toxicity to algae	Acute toxicity to aquatic plants very low.
Toxicity to bacteria	Low toxicity to sewage microbes.
Toxicity to daphnia and	Acute toxicity to freshwater and marine invertebrates is very low.
other aquatic	
invertebrates	
Toxicity to daphnia and	Chronic toxicity expected to be low.
other aquatic	
invertebrates (Chronic	
toxicity)	
Toxicity to fish	Acute toxicity to fish is very low.
Toxicity to fish	Chronic toxicity to fish is expected to be low.
(Chronic toxicity)	, · · · · · · · · · · · · · · · · · · ·
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	No data available.
Other adverse effects	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	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
vPvB assessment	
Toxicity to algae	Remarks: No data available
Toxicity to daphnia and	Remarks: No data available.
other aquatic	100000000000000000000000000000000000000
invertebrates	
Methyl Ethyl Ketone(78-	93-3)
Bioaccumulative	Partition coefficient: n-octanol/water: log Pow: 2.49
potential	The state of the s
EC50 (Algae)	2029 mg/l (48 h; Pseudokirchneriella subcapitata (Green Algae))
EC50 (Daphnia)	308 mg/l (48 h; Daphnia magna (Water flea))
LC50 (fish)	2993 mg/l (96 h; Pimephales promelas (Fathead minnow))
Mobility in soil	No data available
Other adverse effects	No data available
Persistence and	Biodegradability: Concentration: 2mg/l; Result: Readily biodegradation: 98%; Exposure 28 d;
degradability	blodegradability: Concentration: Zing/i, Nesait: Neadily blodegradation: 30 %, Exposure 20 d,
Product	Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA
1 Todact	Section 602 Class 1 Substances:
O-Xylene(95-47-6)	T COCCION SOE GIASS E SUBSCANCOS.
Bioaccumulative	No data available.
potential	TTO GALLA GTORIUDIOT
LC50 - Lepomis	16.10 mg/l, 96 h, Lepomis macrochirus (Bluegill)
macrochirus - Toxicity	10.10 mg/i, 30 m, Lepomis macrociilus (bluegiii)
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	
Porcietones and	Harmful to aquatic life with long lasting effects.
Persistence and	Biodegradability aerobic - Exposure time 28 d Result: 69.67 % - Not readily biodegradable.
degradability	(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
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Para-Xylene(106-42-3)	
Bioaccumulative	No data available.
potential	
EC50 - Daphnia magna	35.50 - 63.10 mg/l - 48 h, Daphnia magna (Water flea)
- Toxicity to daphnia	
and other aquatic	
invertebrates	
EC50 -	3.20 - 4040 mg/l - 72 h, Pseudokirchneriella subcapitata (green algae)
Pseudokirchneriella	
subcapitata - Toxicity	
to algae	10.00 mg// 24 h Constitut synthy (coldfish)
LC50 - Carassius	18.00 mg/l - 24 h, Carassius auratus (goldfish)
auratus - Toxicity to fish	
LC50 - Oncorhynchus	2.60 mg/l - 96 h, Oncorhynchus mykiss (rainbow trout)
mykiss - Toxicity to	2.00 Hight - 90 H, Official Hykiss (fairbow trout)
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 daverse effects	Toxic to aquatic life.
Persistence and	Biodegradability Result: 87.8 % - Readily biodegradable
degradability	, , , , , , , , , , , , , , , , , , , ,
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
vPvB assessment	, , , , , , , , , , , , , , , , , , , ,
Phenylethane(100-41-4)	
Bioaccumulative	Partition coefficient: noctanol/water : log Pow: 2.92
potential	
EC50 (Daphnia magna	1.8 mg/l Exposure time: 48 h Test Type: static test
(Water flea))	
EC50	5.4 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: Static
(Pseudokirchneriella	GLP: yes
subcapitata)	
LC50 (Oncorhynchus	4.2 mg/l Exposure time: 96 h Test Type: semi-static test
mykiss (rainbow	
trout))	
.,,	N. 1
Mobility in soil	No data available.
.,,	Results of PBT and vPvB assessment : This substance is not considered to be persistent,
Mobility in soil	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
Mobility in soil 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).
Mobility in soil Other adverse effects Persistence and	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily
Mobility in soil Other adverse effects Persistence and degradability	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes
Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes (Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology
Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and other aquatic	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes
Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes (Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology
Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes (Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology
Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Propane Blend(74-98-6)	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes (Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology Assessment Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.
Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes (Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology
Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Propane Blend(74-98-6) Atmospheric Oxidation	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes (Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology Assessment Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects. Material Expected to degrade at a moderate rate in air.
Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Propane Blend(74-98-6) Atmospheric Oxidation Bioaccumulative	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes (Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology Assessment Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects. Material Expected to degrade at a moderate rate in air.
Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Propane Blend(74-98-6) Atmospheric Oxidation Bioaccumulative potential	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes (Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology Assessment Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects. Material Expected to degrade at a moderate rate in air. Material Potential to bioaccumulate is low
Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Propane Blend(74-98-6) Atmospheric Oxidation Bioaccumulative potential Ecotoxicity	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes (Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology Assessment Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects. Material Expected to degrade at a moderate rate in air. Material Potential to bioaccumulate is low Not expected to demonstrate chronic toxicity to aquatic organisms. Material Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.
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Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Propane Blend(74-98-6) Atmospheric Oxidation Bioaccumulative potential Ecotoxicity Mobility in soil Persistence and Degradability Titanium Dioxide(13463-LC50 fish Toluene(108-88-3) Bioaccumulative potential EC50 (Ceriodaphnia dubia) EC50 (Chlorella vulgaris (Fresh water	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes (Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology Assessment Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects. Material Expected to degrade at a moderate rate in air. Material Potential to bioaccumulate is low Not expected to demonstrate chronic toxicity to aquatic organisms. Material Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids. Biodegradation: Material Expected to be inherently biodegradable 67-7) Fathead minnow 96 h >1000 mg/l Partition coefficient: noctanol/water: log Pow: 2.73 3.78 mg/l Exposure time: 48 h Test Type: Renewal 134 mg/l Exposure time: 3 h Test Type: static test
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Mobility in soil Other adverse effects Persistence and degradability Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Propane Blend(74-98-6) Atmospheric Oxidation Bioaccumulative potential Ecotoxicity Mobility in soil Persistence and Degradability Titanium Dioxide(13463-LC50 fish Toluene(108-88-3) Bioaccumulative potential EC50 (Ceriodaphnia dubia) EC50 (Chlorella vulgaris (Fresh water algae)) IC50 (Bacteria) LC50 (Oncorhynchus	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). Biodegradability: Inoculum: activated sludge Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes (Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology Assessment Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects. Material Expected to degrade at a moderate rate in air. Material Potential to bioaccumulate is low Not expected to demonstrate chronic toxicity to aquatic organisms. Material Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids. Biodegradation: Material Expected to be inherently biodegradable 67-7) Fathead minnow 96 h >1000 mg/l Partition coefficient: noctanol/water: log Pow: 2.73 3.78 mg/l Exposure time: 48 h Test Type: Renewal 134 mg/l Exposure time: 3 h Test Type: static test
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Mobility in soil	No data available.
Other adverse effects	No data available.
Persistence and degradability	Biodegradability: Inoculum: Sewage Biodegradation: 100 % Remarks: Readily biodegradable
VM&P Naphtha(64742-89	9-8)
Bioaccumulative potential	Partition coefficient: noctanol/water: log POW: 2.13 - 4.85 (25 °C)
EL50 (Daphnia magna (Water flea))	4.5 mg/l Exposure time: 48 h Test Type: Immobilization Analytical monitoring: yes Test substance: Naphtha GLP: yes
EL50 (Pseudokirchneriella subcapitata (green algae))	3.7 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes GLP: yes. Ecotoxicology Assessment Acute aquatic toxicity: Harmful to aquatic organisms.
LL50 (Fish)	8.2 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes GLP: yes
Mobility in soil	No data available.
Other adverse effects	No data available.
Persistence and degradability	Biodegradability: Concentration: 49.2 mg/l Result: Readily biodegradable. Biodegradation: 77 % Testing period: 2 d Exposure time: 28 d GLP: yes
Xylene(1330-20-7)	
Bioaccumulative potential	Partition coefficient: noctanol/water : log Pow: 2.77 - 3.15
EC50 (Pseudokirchneriella subcapitata)	4.36 mg/l End point: Growth rate Exposure time: 73 h Test Type: static test Analytical monitoring: yes
IC50 (Daphnia magna (Water flea))	1 mg/l Exposure time: 24 h Test Type: static test Test substance: Information given is based on data obtained from similar substances. Method: OECD Test Guideline 202 GLP
LC50 (Oncorhynchus mykiss (rainbow trout))	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
Mobility in soil	No data available.
Persistence and degradability	Biodegradability : Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 72 % Exposure time: 20 d

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): Limited Quantity

HAZARDS CLASS: 2.1 UN/NA NUMBER: UN1950 PACKING GROUP: Not Applicable

EMERGENCY RESPONSE GUIDE (ERG): 126

IATA (AIR)

DOT (INTERNATIONAL AIR TRANSPORTATION ASSOCIATION)

PROPER SHIPPING NAME: Aerosols

HAZARDS CLASS: 2.1 UN/NA NUMBER: UN1950 PACKING GROUP: N/A

EMERGENCY RESPONSE GUIDE (ERG): 126

IMDG (OCEAN)

PROPER SHIPPING NAME: Aerosols

HAZARDS CLASS: 2.1 UN/NA NUMBER: UN1950 PACKING GROUP: N/A

EMERGENCY RESPONSE GUIDE (ERG): 126

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#
VM&P Naphtha	64742-89-8
Ethylene glycol mono butyl ether	111-76-2
Methyl Ethyl Ketone	78-93-3
Phenylethane	100-41-4
Xylene	1330-20-7
Carbon Black	1333-86-4
Ethyl Alcohol	64-17-5

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#
Acetone	67-64-1
Propane Blend	74-98-6
Isobutyl Acetate	110-19-0
VM&P Naphtha	64742-89-8
Titanium Dioxide	13463-67-7
Isopropyl Alcohol	67-63-0
Ethylene glycol mono butyl ether	111-76-2
Methyl Ethyl Ketone	78-93-3
Phenylethane	100-41-4

CLEAN AIR ACT:

This product contains:	Chemical CAS#
Meta-Xylene	108-38-3
Phenylethane	100-41-4
Para-Xylene	106-42-3
O-Xylene	95-47-6
Benzene	71-43-2
Toluene	108-88-3

INTERNATIONAL REGULATIONS

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

Flam. Liq. Cat. 2; H223

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
#Benzene	71-43-2
+Toluene	108-88-3

- *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

Massachusetts Right to Know		
This product contains	Chemical CAS#	
Acetone	67-64-1	
Ethylene glycol mono butyl ether	111-76-2	
Methyl Ethyl Ketone	78-93-3	
Phenylethane	100-41-4	
Xylene	1330-20-7	
Para-Xylene	106-42-3	
O-Xylene	95-47-6	
Carbon Black	1333-86-4	
Benzene	71-43-2	

Pennsylvania Right to Know

This product contains	Chemical CAS#
Acetone	67-64-1
Titanium Dioxide	13463-67-7
Ethylene glycol mono butyl ether	111-76-2
Methyl Ethyl Ketone	78-93-3
Phenylethane	100-41-4
Xylene	1330-20-7
Amorphous Silica	7631-86-9
Para-Xylene	106-42-3
O-Xylene	95-47-6
Aluminum Hydroxide	21645-51-2
Carbon Black	1333-86-4
Ethyl Alcohol	64-17-5
Toluene	108-88-3

New Jersey Right to Know

This product contains	Chemical CAS#
Acetone	67-64-1
Titanium Dioxide	13463-67-7
Ethylene glycol mono butyl ether	111-76-2
Methyl Ethyl Ketone	78-93-3
Phenylethane	100-41-4
Xylene	1330-20-7
Amorphous Silica	7631-86-9
Para-Xylene	106-42-3
O-Xylene	95-47-6
Aluminum Hydroxide	21645-51-2
Carbon Black	1333-86-4
Ethyl Alcohol	64-17-5

16. OTHER INFORMATION

Other Product Information

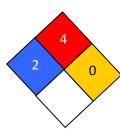
% Volatile by Volume: 93.92 % Volatile by Weight: 86.81 % Solids by volume: 6.08 % Solids by Weight: 13.19 % Exempt by Volume: 28.95 % Exempt by Weight: 29.89

VOC CONTENT: Excluding Exempt VOC: 614 Including Exempt VOC: 436

HMIS RATING

Health :	2*
Flammability :	4
Reactivity:	0
Personal Protection:	Н

NFPA CODES



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