SAFETY DATA SHEET



DATE ISSUED : | 6/5/2015 SDS REF. No: A-2000 Series

A-2000 SERIES

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: A-2000 LACQUER SERIES

PRODUCT CODE: A-2000 SERIES

PRODUCT USE: Industrial Aerosol Touch Up Paint

MANUFACTURER 24 HR. EMERGENCY TELEPHONE NUMBER

CHEMTREC (US Transportation): (800)424-9300 Cardinal Industrial Finishes CHEMTREC (International : 1(202)483-7616

Transportation)

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

2. HAZARDS IDENTIFICATION

PICTOGRAMS

1329 Potrero Ave



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.

R40 Limited evidence of a carcinogenic effect.

S36 Wear suitable protective clothing.

S37 Wear suitable gloves.

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

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 and measures.

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

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

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

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

Most important symptoms and effects, both acute and delayed. Symptoms/injuries: Eye irritation

Symptoms/injuries after inhalation: May cause drowsiness or dizziness.

Symptoms/injuries after eye contact: Cause serious eye irritation.

Symptoms/injuries after ingestion: Ingestion may cause nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed.

If medical advise is needed, have product container or label on hand.

5. FIRE FIGHTING MEASURES

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

FIRE FIGHTING PROCEDURE: Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment. Protection during firefighting: Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including self-contained breathing apparatus with full face piece operated in pressure demand or other positive

pressure modes.

UNUSUAL FIRE AND EXPLOSION HAZARD: Fire hazard: Highly flammable/liquid or vapor. Explosive hazard: May form flammable/explosive vapor-air mixture.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

General measures: Remove ignition sources. Use special care to avoid static electric charges. No smoking.

FOR NON-EMERGENCY PERSONNEL:

For non-Emergency procedures: Evacuate unnecessary personnel.

FOR EMERGENCY RESPONDERS:

Equip cleanup crew with proper protection. Avoid breathing fume, vapors.

ENVIROMENTAL PRECAUTIONS:

Prevent entry to sewers and public waters.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP:

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

7. HANDLING AND STORAGE

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

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

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

Incompatible products: Strong bases. Strong acids.

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

8. EXPOSURE CONTROLS\PERSONAL PROTECTION

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
Ethylene glycol mono butyl ether(111-76	-2)	
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA NIOSH	NIOSH REL (ppm)	5 ppm
USA OSHA	OSHA PO TWA (ppm)	25 ppm
USA OSHA	OSHA TABLE Z-1 TWA (mg/m3)	50 ppm, 240 mg/m3
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
USA OSHA	OSHA TWA	400 ppm, 980 mg/m3
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

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)		
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)		
PEI (Permissible Exposure Limit) OSHA TWA 15 mg/m3		
TLV	ACGIH TWA	10 mg/m3
VM&P Naphtha(64742-89-8)		
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

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 expolsion limit	:	.8
Upper expolsion limit	:	12.8
Vapor pressure	:	185 mm Hg
Vapor density	:	Heavier than air
Relative density	:	No data available.
Density	:	6.3911
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 neurotic 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 Iymphorma, 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 Assessment	Animal testing did not show any mutagenic effects.
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 sensitisation	Test type: Maximization test, Species: guinea pig, Assessment: Does not cause skin sensitisation. Result: Did not cause sensitisation on laboratory animals.
Serious eye dammage/eye irritation	Species: rabbit, Result: Slightly irritating to eyes, Exposure time: 24 h, Classification: Irritating to eyes, Remarks: Eye irritation.
Skin corrision/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.
Ethylene glycol mono bu	
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-Assessment: Not evidence of carcinogenicity in animal studies
Further information	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: Chinese 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	Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitisation on
sensitation	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	Result: Mild skin irritation
STOT - repeated 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	> 17,400 mg/kg
LD50 (Rat) Oral	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	NOEL (Rat, Oral Study, 92 d): 316 mg/kg Read-across from a similar material.
Reproductive toxicity	No data available.
Respiratory or skin sensitization	Skin Sensitization:, (Guinea Pig) - non-sensitizing.
Serious eye damage/eye irritation	(Rabbit): none
Skin corrosion/irritation	(Rabbit, 4 h): none
Specific target organ toxicity - repeated	No data available.
exposure	
Specific target organ toxicity - single	No data available.
exposure	0)
Isopropyl Alcohol(67-63	
Aspiration hazard	Based on physico-chemical values or lack of human evidence, not classified.
Carcinogenicity Effects on	Not classified. Not classified.
Development	ווטנ נומססוופע.
Germ cell mutagenicity	Not classified No adverse effect observed.
Jerni cen matagementy	1 1100 Gladolinea 110 daverse effect observed.

LC50 (Rat) 46.6 mg/l; Exposure time: 8 h, Acute inhalation toxicity: Based on acute toxicity values, 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 (att dizziness, narcosis, and muscle relaxation, with respiratory arrest and death in cases of sover exposure). LD50 (Rabbit) 12,870 mg/kg LD50 (Rat) 4,396 mg/kg; Acute oral toxicity: Based on acute toxicity values, not classified. Ingestior cause gastrointestinal effects (pain, nausea, vomiting, and hemorrhage), hypothermia, cuteffects (headache, dizziness, sleepiness, coma and death). Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Serious eye damage/eye irritation Skin corrosion/irritation Target Organ Systemic Toxicant - Repeated exposure toxicity values, not classified. Liquid may cause slight skin irritation. Exposions/irritation Target Organ Systemic Toxicant - Single exposure Resposure Reta-Xylene(108-38-3) Additional Information Additional Information Application and the serious eye irritation, chest pain, pulmonary edema, Central nervous system Classified exposure Meta-Xylene(108-38-3) Additional Information Application and the serious eye irritation, chest pain, pulmonary edema, Central nervous system depression, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression of the product presents at level greater than or equal to 0.1% is identified as a known or anticipated as to its carcinogenicity to humans (m-Xylene) NTP: No component of this product present at level greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to	
LD50 (Rat)	t, xia,
cause gastrointestinal effects (pain, nausea, vomiting, and hemorrhage), hypothermia, coeffects (low blood pressure, shock and cardiac arrest), liver changes, kidney damage, and effects (low blood pressure, shock and cardiac arrest), liver changes, kidney damage, and effects (low blood pressure, shock and cardiac arrest), liver changes, kidney damage, and effects (low blood pressure, shock and cardiac arrest), liver changes, kidney damage, and effects (low blood pressure). Respiratory or skin sensitization Serious eye damage/eye irritation Skin Classified Causes serious eye irritation. Based on skin irritation values, not classified. Liquid may cause slight skin irritation. Expo liquid to the underdeveloped skin of premature infants may cause severe irritation. Based on skin irritation values, not classified. Liquid may cause severe irritation. Based on repeated exposure toxicity values, not classified. Routes of exposure: Ingestion, Inhalation Target Organs: Central nervous system Classif May cause drowsiness or dizziness. Routes of exposure: Ingestion, Inhalation Target Organs: Central nervous system Classified exposure May Engel (18-38-3) Additional Information RECS: ZE2275000 Liver injury may occur., Kidney injury may occur., Blood disorders, be sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depressis Dermatitis, Gastrointestinal disturbance. Aspiration hazard Carcinogenicity This product is or contains a component that is not classifiable as to its carcinogenicity be 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 leve greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No componen	
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damage/eye irritation Skin Based on skin irritation values, not classified. Liquid may cause slight skin irritation. Exporting Exporting Exposure Exposur	
Target Organ Systemic Toxicant - Repeated exposure Toxicant - Repeated exposure Target Organ Systemic Toxicant - Single exposure Target Organ Systemic Toxicant - Single exposure Meta-Xylene(108-38-3) Additional Information RTECS: ZE2275000 Liver injury may occur., Kidney injury may occur., Blood disorders, beneation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression permatitis, Gastrointestinal disturbance. Aspiration hazard Carcinogenicity This product is or contains a component that is not classifiable as to its carcinogenicity to humans (m-Xylene) NTP: No component of this product present at level greater than or equal to 0.1% is identified as a known or anticipated carcinogen by 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. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No data available. Germ cell mutagenicity LC50 Inhalation (Rat, Male) LD50 Oral (Rat, Male) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (T 3.1/3.2). No data available. Geproductive toxicity Respiratory or skin sensitization Serious eye Eyes - Rabbit Result: Severe eye irritation - 24 h Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Skin irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h	
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Toxicant - Repeated exposure Target Organ Systemic Toxicant - Single exposure: Ingestion, Inhalation Target Organs: Central nervous system Classif May cause drowsiness or dizziness. May be fatal (Section 1, 1977) May be fatal if swallowed and enters airways. Carcinogenicity This product is or contains a component that is not classifiable as to its carcinogenicity to humans (m-Xylene) NTP: No component of this product present at leve greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen or potential carcinogen by OSHA. Germ cell mutagenicity LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Toxica) (T	
Toxicant - Single exposure Meta-Xylene(108-38-3) Additional Information Additional Information RTECS: ZE2275000 Liver injury may occur., Kidney injury may occur., Blood disorders, b sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depressic Dermatitis, Gastrointestinal disturbance. Aspiration hazard May be fatal if swallowed and enters airways. This product is or contains a component that is not classifiable as to its carcinogenicity bit its LARC, ACGIH, NTP, or EPA classification. LARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (m-Xylene) NTP: No component of this product present at lever greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No data available. LC50 Inhalation (Rat, Male) LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) Agriculture value of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by 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. No data available. 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Ta.1/3.1/3.2). No data available. Reproductive toxicity Respiratory or skin sensitization Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes -	
Additional Information RTECS: ZE2275000 Liver injury may occur., Kidney injury may occur., Blood disorders, b 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. This product is or contains a component that is not classifiable as to its carcinogenicity be 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 lever greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at lever greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No domponent of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No domponent of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No domponent of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No domponent of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No domponent of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No domponent of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No domponent of this product presents at levels greater	ed,
Additional Information RTECS: ZE2275000 Liver injury may occur., Kidney injury may occur., Blood disorders, bensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depressic Dermatitis, Gastrointestinal disturbance. Aspiration hazard May be fatal if swallowed and enters airways. This product is or contains a component that is not classifiable as to its carcinogenicity be 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 level greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater t	
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Carcinogenicity This product is or contains a component that is not classifiable as to its carcinogenicity be 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 leve greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified carcinogen by OSHA. Germ cell mutagenicity LC50 Inhalation (Rat, Male) LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) LD50 Oral (Rat, Male) Seproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin Corrosion/irritation Specific target organ This product is or contains a component that is not classifiable as to its carcinogen by Otto Carcinogen by Otto Carcinogen by Otto Carcinogen by Otto Carcinogen by Others a known or anticipated carcinogen by NTP. No component of this product present at leve greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at leve greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at leve greater than or equal to 0.1% is identified as to its carcinogen by Others for one product present at leve greater than or equal to 0.1% is identified as a known or anticipated as known or antici	١,
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Germ cell mutagenicity LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) LD50 Oral (Rat, Male) LD50 Oral (Rat, Male) Approductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ No data available. I2,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (T. 3.1/3.2). No data available. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h No data available.	els OSHA:
LC50 Inhalation (Rat, Male) LD50 Dermal (Rabbit, Male) LD50 Oral (Rat, Male) LD50 Oral (Rat, Male) LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ 6700 ppm, 4 h - (Directive 67/548/EEC, Annex V, B.2.) 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (T. 3.1/3.2). No data available. 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (T. 3.1/3.2). No data available. 12,126 mg/kg Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (T. 3.1/3.2). No data available.	
Male) 3.1/3.2). No data available. LD50 Oral (Rat, Male) Reproductive toxicity Respiratory or skin sensitization Serious eye damage/eye irritation Skin corrosion/irritation Specific target organ S.1/3.2). No data available. 6,602 mg/kg (OECD Test Guideline 401) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Eyes - Rabbit Result: Severe eye irritation - 24 h Skin - Rabbit Result: Skin irritation - 24 h No data available.	
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damage/eye irritation Skin Skin - Rabbit Result: Skin irritation - 24 h corrosion/irritation Specific target organ No data available.	
corrosion/irritation Specific target organ No data available.	
Specific target organ No data available.	
toxicity - repeated exposure	
Specific target organ toxicity - single Inhalation - May cause respiratory irritation.	
exposure	
Methyl Ethyl Ketone(78-93-3)	
Aspiration toxicity Product: May be harmful if swallowed and enters airways.	
Carcinogenicity Remarks: This information is not available, Carcinogenicity-Assessment: Not classified as human carcinogen.	
Further information Product Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, na and vomiting.,	
Germ cell mutagenicity Genotoxicity in vitro: Test Type: Ames test, Metabolic activation: with and without metabactivation, Method OECD Test Guideline 471	olic
LC50 (mouse) 320 mg/l (4 h exposure) inhalation	
LC50 (rat) Oral 3737 mg/kg	

Reproductive toxicity 1000, 3000 ppm, Respiratory or skin sensitation Serious eye damage/ sye irritation Sixin Corrosion/Irritation Sixin Product: Target Organs: Central Nervous system, Components: Exposure routes: Inhalation, Product: Target Organs: Central Nervous system Product: Valuation organs Product: Target Organs: Central Nervous system Product: Irritation toxicity May be fatal if swallowed and enters alrways. Species: mouse (male and female) Application Route: Inhalation Productive desiretion organic arcinomas GLP: yes Carcinogenicity - Assessment: Carcinogenicity dassification toxicity in vitro. Test Type: Organsian system Productive toxicity Inhalation Application Route: Inhala	LD50 (rabbit) dermal	6,480 mg/kg
cause sensitisation on laboratory animals. Serious eye damage/ eye irritation Skin corrosion/irritation STOT - repeated exposure STOT - repeated exposure STOT - repeated exposure STOT - speated exposure STOT - speated exposure Product: No data available, Components: No data available, Exposure time 24 h, Result: Mild skin irritation STOT - single exposure Product: Target Organs: Central Nervous system, Components: Exposure routes: Inhalation, Product: Target Organs: Central Nervous system Product Nervous Central Nervous System Product Nervous Central Nervous System Product Nervous C	Reproductive toxicity	Effects on fetal development, Species: rat female, Application Route: Inhalation, Dose: 400,
Remarks: Moderate skin irritation, Species rabbit, Exposure time 24 h, Result: Mild skin irritation corrosion/Irritation STOT - repeated exposure Froduct: No data available, Components: No data available. Exposure STOT - single exposure Product: Target Organs: Central Nervous system, Components: Exposure routes: Inhalation, Product: Target Organs: Central Nervous system, Components: Exposure routes: Inhalation, Product: Target Organs: Central Nervous system Product: Target Organs: Central Nervous system, Components: Exposure routes: Inhalation, Product: Target Organs: Central Nervous system Productive System Productive System Productive Target Organs: Central Nervous system Productive Target Organs: Auditors System Productive Target Or	Respiratory or skin sensitation	
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Product: To data available, Components: No data available, exposure Product: Target Organs: Central Nervous system, Components: Exposure routes: Inhalation, Product: Target Organs: Central Nervous system, Components: Exposure routes: Inhalation, Product: Target Organs: Central Nervous system Phenylethane(100-41-4) Aspiration toxicity Carcinogenicity May be fatal if swallowed and enters airways. Species: mouse, (male and female) Application Route: Inhalation Exposure time: 103 wk Activity duration: 6 h Dose: 0, 75, 250, 750 pm Frequency of Treatment: 5 days/week NOAEL: 250 ppm Method: 0ECD Test Guideline 433 Result: evidence of carcinogenic activity Symptoms: increased incidences of alvelator/Pronchiolar neoplasm's, increase incidence of the patocellular carcinomas GLP: yes Carcinogenicity - Assessment: Carcinogenicity classification not possible from current data. Germ cell mutagenicity Germ cell mut	Skin corrosion/irritation	Remarks: Moderate skin irritation, Species rabbit, Exposure time 24 h, Result: Mild skin irritation
Product: Target Organs: Central Nervous system, Components: Exposure routes: Inhalation, Product: Target Organs: Central Nervous system Phenylethane(100-41-4) Aspiration toxicity Carcinogenicity Carcinogenicity Species: mouse, (male and female) Application Route: Inhalation Exposure time: 103 wk Activity duration: 6 h Dose: 0, 75, 250, 750 ppm Frequency of Treatment: 5 days/week NOAEL: 250 ppm Method: OECD Test Guideline 453 Result: evidence of carcinogenic activity Symptoms: increased incidences of alveolar/Pronchiolar neoplasms', increase incidences of alveolary from current data. Germ cell mutagenicity Genotoxicity in vitro, Test Type: Chromosome aberration test in vitro Test species: Chrose harder ovary (CHO) Metabolic activation: with and without metabolic activation with and with	STOT - repeated	Product: No data available, Components: No data available.
Aspiration toxicity Carcinogenicity Species: mouse, (male and female) Application Route: Inhalation Exposure time: 103 wk Activity duration: 6 h Dose: 0, 75, 250, 750 ppm Frequency of Treatment: 5 day, week NOAEL: 250 ppm Method: OFCD Test Guideline 435 Result: evidence of carcinogenic activity Symptoms: increased incidences of alveolar/bronchiolar neoplasm's, increase incidence of hepatocellular carcinomas GLP; yes Carcinogenicity - Assessment: Carcinogenicity classification not possible from current data. Germ cell mutagenicity Germ cell mutagenicity Germ cell mutagenicity Test Guideline 478 Result: negative GLP: no: 1 Test Type: Hammelian cell pere mutation assay Test species: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: 0FCD Test Guideline 473 Result: negative GLP: no: 1 Test Type: Mammelian cell pere mutation assay Test species: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: 0FCD Test Guideline 476 Result: negative GLP: yes Test Type: DNA damage and/or repair Test species: mouse (male and female)Application Route: Toral Method: 0FCD Test Guideline 474 Result: negative GLP: yes Test Type: DNA damage and/or repair Test species: mouse (male and female)Application Route: Oral Method: 0FCD Test Guideline 474 Result: negative GLP: yes Test Type: DNA damage and/or repair Test species: mouse (male and female)Application Route: Inhalation Method: 0FCD 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 15/433 mg/kg 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: 0FCD Test Guideline 407 GLP: yes Symptoms: Increased kidney and liver weights Reproductive toxicity Reproductive toxicity - Parent: NOAEC: 1000 ppm General Toxicity 1: NOAEC: 100 ppm Symptoms: Reduced	STOT - single exposure	
Species: mouse, (male and female) Application Route: Inhalation Exposure time: 103 wk Activity duration: 6 h Dose: 0, 75, 250, 750 ppm Frequency of Treatment: 5 days/week NOAEL: 250 ppm Method: OECD Test Guideline 453 Result: evidence of carcinogenic activity Symptoms: increased incidence of alweloar/bronchiolar neoplasms, increase incidence of hepatocellular carcinomas GLP: yes Carcinogenicity - Assessment: Carcinogenicity classification not possible from current data. Germ cell mutagenicity Genotoxicity in vitro, Test Type: Chromosome aberration test in vitro Test species: Chinese hamster ovary (CHO) Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: no: Test Type: Mammalian cell gene mutation assay Test species: mouse lymphoma cells Metabolic activation; with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes Genotoxicity in vivo: Test Type: In vivo micronucleus test Test species: mouse (male) Application Route: Oral Method: OECD Test Guideline 476 Result: negative GLP: yes Test Type: DNA damage and/or repair Test species: mouse (male and female) Application Route: Inhalation Method: OECD Test Guideline 476 Result: negative GLP: yes Test Type: Test Type: DNA damage and/or repair Test species: mouse (male and female) Application Route: Oral Exposure time: 28 d Dos: 75, 250 and 750 mg/kg by/day Method: OECD Test Guideline 470 feets: LC50 (Mouse, Male) 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 by/day Method: OECD Test Guideline 407 GLP: yes Symptoms: Increased kidney and liver weights Reproductive toxicity Fifects 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: 5 Noeneral Toxicity: Parent: NOAEC: 1,000 ppm General Toxicity: NOAEC: 1,000 ppm Symptoms: Reduced fe	Phenylethane(100-41-4)	
Activity duration: 6 h Dose: 0, 75, 250, 750 ppm Frequency of Treatment: 5 days/week NOAEL: 250 ppm Method: OECD Test Guideline 453 Result: evidence of carcinogenicativity Symptoms: increased incidences of alveolar/bronchiolar neoplasm's, increases incidence of hepatocellular carcinomas GLP: yes Carcinogenicity - Assessment: Carcinogenicity classification not possible from current data. Genotxicity 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 Imphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes Genotoxicity in vivo: Test Type: In vivo micronucleus test Test species: mouse (male) Application Route: Inhalation Method: OECD Test Guideline 476 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) 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 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 and 1000 ppm Duration of Single Treatmen	Aspiration toxicity	
hamster ovary (CHO) Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: no : Test Type: Mammalian cell gene mutation assay Test species: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method : OECD Test Guideline 476 Result: negative GLP: yes Genotoxicity in vivo : Test Type: In vivo micronucleus test Test species: mouse (male) Application Route: Oral Method: OECD Test Guideline 474 Result: negative GLP: yes Test Type: DNA damage and/or repair Test species: mouse (male and female) Application Route: Inhalation Method: OECD Test Guideline 486 Result: negative GLP: yes Germ cell mutagenicity Assessment : In vivo tests did not show mutagenic effects LC50 (Mouse, Male) 10 mg/l Assessment: The component/mixture is moderately toxic after short term inhalation. LD50 (rabbit) 5,433 mg/kg Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity First 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: 6 h General Toxicity Maternal: NOAEC: 500 ppm Teratogenicity: NOAEC: 2,000 ppm Developmental Toxicity. NOAEC: 500 ppm Symptoms: Reduced body weight Method: OECD Test Guideline 415 Result: Developmental toxicity coccurred at maternal toxicity dose levels (P1: No data available Reproductive toxicity - Assessment: No toxicity to reproduction Did not show teratogenic effects in animal experiments. Serious eye damage/eye irritation Sino Corrosion/irritation Sino Corrosion/irritation Sino Corrosion/irritation Sino Corrosion/irritation Sino No end point data for material	Carcinogenicity	Activity duration: 6 h Dose: 0, 75, 250, 750 ppm Frequency of Treatment: 5 days/week NOAEL: 250 ppm Method: OECD Test Guideline 453 Result: evidence of carcinogenic activity Symptoms: increased incidences of alveolar/bronchiolar neoplasm's, increase incidence of hepatocellular carcinomas GLP: yes Carcinogenicity - Assessment: Carcinogenicity classification not possible
LC50 (Mouse, Male) LD50 (rabbit) Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Reproductive toxicity Reduced for fettility: 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 offspring weight gain. Method: OECD Test Guideline 415 Result: No reproductive effects. GIP: 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: 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. Remarks: No data available Reproductive toxicity - Assessment: No toxicity to reproduction Did not show teratogenic effects in animal experiments. Remarks: No data available Species: rabbit Result: Mild skin irritation Sriot - repeated exposure, The substance or mixture is classified as specific target organ toxicant, repeated exposure, attegory 2. No data available. No end point data for material. Not expected to be an aspiration hazard. Based on physicochemical properties of the material. No end point data for material. Not expected to cause cancer. Serious Eye Damage/Irritation: No end point data for material. , May	Germ cell mutagenicity	hamster ovary (CHO) Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: no : Test Type: Mammalian cell gene mutation assay Test species: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes Genotoxicity in vivo: Test Type: In vivo micronucleus test Test species: mouse (male) Application Route: Oral Method: OECD Test Guideline 474 Result: negative GLP: yes Test Type: DNA damage and/or repair Test species: mouse (male and female)Application Route: Inhalation Method: OECD Test Guideline 486 Result: negative GLP: yes Germ cell mutagenicity Assessment: In vivo tests did not show
LD50 (rabbit) 15,433 mg/kg	LC50 (Mouse Male)	
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 Respiratory or skin sensitization Serious eye damage/eye irritation Serious eye damage/eye irritation Species: rabbit Result: Mild eye irritation Remarks: No data available demage/eye irritation Species: rabbit Result: Mild skin irritation STOT - repeated exposure, The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2. STOT - single exposure 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. No end point data for material. Not expected to cause cancer. 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. B		
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 Serious eye damage/eye irritation Skin Species: rabbit Result: Mild eye irritation Remarks: No data available damage/eye irritation SKIN Species: rabbit Result: Mild skin irritation STOT - repeated exposure, The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2. STOT - single exposure 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 Not expected to be a germ cell mutagen. Based on test data for structurally	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
Serious eye damage/eye irritation Skin Species: rabbit Result: Mild eye irritation Remarks: No data available Species: rabbit Result: Mild skin irritation Skin Species: rabbit Result: Mild skin irritation STOT - repeated exposure Target Organs: Auditory system Assessment: 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 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. 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		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.
damage/eye irritation Skin	Respiratory or skin sensitization	Remarks: No data available
corrosion/irritation STOT - repeated exposure Target Organs: Auditory system Assessment: 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 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. 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	Serious eye damage/eye irritation	
Target Organs: Auditory system Assessment: 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 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. 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	Skin corrosion/irritation	Species: rabbit Result: Mild skin irritation
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		Target Organs: Auditory system Assessment: May cause damage to organs through prolonged or
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	exposure	repeated exposure., The substance or mixture is classified as specific target organ toxicant,
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	STOT - single exposure	No data available.
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	Propane Blend(74-98-6)	
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	Aspiration	
discomfort to eyes. Germ Cell Mutagenicity Data available. Not expected to be a germ cell mutagen. Based on test data for structurally	Carcinogenicity	No end point data for material. Not expected to cause cancer.
Germ Cell Mutagenicity Data available. Not expected to be a germ cell mutagen. Based on test data for structurally	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

Indoction	N/A
Ingestion Lactation	N/A No end point data for material. Not expected to cause harm to breast-fed children.
C50 (RAT) Inhalation Other Information Reproductive Toxicity	1443 mg/l (GAS) (15 minutes) 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 asphyxiate: 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 Data available. Not expected to be a reproductive toxicant. Based on test data for structurally similar materials. Toxf(s) equivalent or similar to OECD (wideling 423)
Concitization	similar materials. Test(s) equivalent or similar to OECD Guideline 422 No end point data for material. Not expected to be a respiratory sensitizer.
Sensitization Skin	N/A
Specific Target Organ Toxicity (STOT) Repeated Exposure	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	
Carcinogenicity	In lifetime inhalation studies rats were exposed for 2 years to respectively 10, 50, 250 mg/m3 of repairable 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
Sensistation	Did not cause sensitsation on laboratory animals.
Skin irritation	slight irritation
VM&P Naphtha(64742-89	
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	Species: rabbit Result: Not irritating to eyes Exposure time: 1 - 2 s Classification: Not irritating to eyes GLP: yes Remarks: No eye irritation
Skin corrosion/irritation	Species: rabbit Exposure time: 4 h Classification: Irritating to skin Result: Irritating to skin GLP: yes
STOT - repeated exposure	No data available.
STOT - single exposure	Exposure routes: Inhalation Target Organs: Central nervous system Assessment: May cause drowsiness or dizziness.

12. ECOLOGICAL INFORMATION

Acetone(67-64-1)				
Bioacculative potential	Partition coefficient: n-octanol/water: log Pow: -0.24			
EC50 (Daphnia magna (Water flea))	7,630 mg/l (Exposure time 48 h); Test substance: Acetone			
LC50 (Oncorhynchus mykiss (rainbow trout))	6,100 mg/l (Exposure time: 48 h)			
Mobility in soil	No data available.			
Other adverse effects	No data Available. Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratpspheric Ozone - CAA Section 602 Class I Substances., Additional ecological information: No data available.			
Persistence and degradability	Biodegradability: Remarks: No data available			
Toxicity to algae	Remarks: 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 degradability	Aerobic Inoculum: Activated sludge, domestic, adaption not specified, Result: Readily biodegradable. Biodegradation: 90.4 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: no			
Product	Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances:			
Isobutyl Acetate(110-19				
Bioaccumulative	No data available.			
potential Product				
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 (Daphnia)	28.2 mg/l, (48 h, (Daphnid))			
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 (QSAR model)			
NOEC (Alga)	95 mg/l, (72 h, Alga))			
Other adverse effects	No data available.			
Persistence and degradability	81 % (20 d, Ready Biodegradability: Closed Bottle Test) Readily biodegradable			
Results of PBT and	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent,			

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vPvB assessment	very bioaccumulative) criteria		
Isopropyl Alcohol(67-63-			
Bioaccumulative potential	Bioaccumulation: Bioconcentration factor (BCF): 3.16 this material is not expected to 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 Additional ecological information	No additional information available.		
Persistence and degradability	Biodegradability: 86 - 94 % Rapidly degradable. (After two weeks in a ready biodegradability test)		
Results of PBT and vPvB assessment	Not applicable.		
Toxicity to algae	Acute toxicity to aquatic plants very low.		
Toxicity to digde	Low toxicity to sewage microbes.		
Toxicity to daphnia and	Acute toxicity to freshwater and marine invertebrates is very low.		
other aquatic invertebrates	Acute toxicity to ireshwater and marine invertebrates is very low.		
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 potential	Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.		
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 degradability	No data available.		
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.		
Toxicity to algae	Remarks: No data available		
Toxicity to daphnia and other aquatic	Remarks: No data available.		
invertebrates			
Methyl Ethyl Ketone(78-			
Bioaccumalitive potential	Partition coefficient: n-octanol/water: log Pow: 2.49		
EC50 (Algae)	2029 mg/l (48 h; Psedokirchneriella 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		
Persistance and degradability	Biodegradability: Concentration: 2mg/l; Result: Readily biodegradation: 98%; Exposure 28 d;		
Product	Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances:		
Phenylethane(100-41-4)			
Bioaccumulative potential	Partition coefficient: noctanol/water : log Pow: 2.92		
EC50 (Daphnia magna (Water flea))	1.8 mg/l Exposure time: 48 h Test Type: static test		
EC50 (Pseudokirchneriella subcapitata)	5.4 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: Static GLP: yes		
LC50 (Oncorhynchus	4.2 mg/l Exposure time: 96 h Test Type: semi-static test		

mykiss (rainbow	
trout)) Mobility in soil	No data available.
Other adverse effects	Results of PBT and vPvB assessment: This substance is not considered to be persistent,
	bioaccumulation nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulation (vPvB).
Persistence and	Biodegradability: Inoculums: activated sludge Concentration: 22 mg/l Result: Readily
degradability	biodegradable. Biodegradation: 70 % Exposure time: 28 d GLP: yes
Toxicity to daphnia and	(Daphnia): 3.6 mg/l Toxicity to bacteria: GLP: Remarks: No data available Ecotoxicology
other aquatic invertebrates (Chronic	Assessment Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.
toxicity)	
Propane Blend(74-98-6)	
Atmospheric Oxidation	Material Expected to degrade at a moderate rate in air.
Bioaccumalitive	Material Potential to bioaccumulation is low
potential	Material Fotential to bioaccumulation is low
Ecotoxicity	Not expected to demonstrate chronic toxicity to aquatic organisms.
Mobility in soil	Material Highly volatile, will partition rapidly to air. Not expected to partition to sediment and
,	wastewater solids.
Persistence and	Biodegradation: Material Expected to be inherently biodegradable
Degradability	
Titanium Dioxide(13463-	-67-7)
LC50 fish	Fathead minnow 96 h >1000 mg/l
VM&P Naphtha(64742-89	
Bioaccumulative	Partition coefficient: noctanol/water: log POW: 2.13 - 4.85 (25 °C)
potential	
EL50 (Daphnia magna	4.5 mg/l Exposure time: 48 h Test Type: Immobilization Analytical monitoring: yes Test
(Water flea))	substance: Naphtha GLP: yes
EL50	3.7 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes GLP: yes.
(Pseudokirchneriella	Ecotoxicology Assessment Acute aquatic toxicity: Harmful to aquatic organisms.
subcapitata (green	
algae))	
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	Biodegradability: Concentration: 49.2 mg/l Result: Readily biodegradable. Biodegradation: 77 %
degradability	Testing period: 2 d Exposure time: 28 d GLP: yes

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

GENERAL INFORMATION: No data available.

DISPOSAL METHOD: Dispose of waste and residues in accordance with Local, State, and Federal Regulations. Mix with compatible chemical which is less flammable and incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind or weld or near this container.

14. TRANSPORT INFORMATION

USDOT GROUND

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME (DOT): Aerosol, flammable

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

EMERGENCY RESPONSE GUIDE (ERG): 127

IATA (AIR)

DOT (INTERNATIONAL AIR TRANSPORTATION ASSOCIATION)

PROPER SHIPPING NAME: Aerosol, flammable

HAZARDS CLASS: 2.1 UN/NA NUMBER: UN1950 PACKING GROUP: N/A **EMERGENCY RESPONSE GUIDE (ERG): 127**

IMDG (OCEAN)

PROPER SHIPPING NAME: Aerosol, Flammable

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

EMERGENCY RESPONSE GUIDE (ERG): 127

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

Methyl Ethyl Ketone (CAS# 78-93-3): RQ(lbs) 5000 Carbon Black (CAS# 1333-86-4): RQ (lbs) 5000

Solvent Naptha (Petroleum), Light Alaphatic (CAS# 64742-89-8) : RQ (lbs) 5000

Xylene Mixed Isomers (CAS# 1330-20-7) : RQ (lbs) 5000

Phenylethane (CAS# 100-41-4): RQ (lbs) 5000

SARA 304 Extremely Hazardous Substances Reportable Quantity: This material does not contain any components

with a section 304 EHS RQ.

SARA TITLE III (SUPERFUND AMENDMENRS AND REAUTHORIZATION ACT)

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

SARA 313:

Xylene Mixed Isomers CAS# 1330-20-7

Meta Xylene CAS# 108-38-3 Phenylethane CAS# 100-41-4 2-Propanol CAS# 67-63-0

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

INTERNATIONAL REGULATIONS

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

Flam. Liq. 2 H223 Eye Irrit. 2 H319 STOT SE 3 H336

NATIONAL REGULATIONS

This product contains:	Chemical CAS#	
#Titanium Dioxide	13463-67-7	
#Phenylethane	100-41-4	

Indicates a chemical listed by IARC as a possible carcinogen.

STATE REGULATIONS **CALIFORNIA PROPOSITION 65**

This product contains:	Chemical CAS#	
*Phenylethane	100-41-4	

- *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 cause birth defects or other reproductive harm.

Massachusetts Right to Know

Isobutyl Acetate CAS# 110-19-0 M-Xylene CAS# 108-38-3 Carbon Black CAS# 1333-86-4 2-Propanol CAS# 67-63-0 Ethyl Alcohol CAS# 64-17-5

Pennsylvania Right to Know Isobutyl Acetate CAS# 110-19-0 Carbon Black CAS# 1333-86-4 Titanium Dioxide CAS#13463-67-7 Aluminum Hydroxide CAS# 21645-51-2 Amorphous Silicon Dioxide CAS#7631-86-9 Solvent Naphtha (Petroeum), Light Alphatic CAS# 64742-89-8 M-Xylene CAS# 108-38-3 Xylene Isomers CAS#1330-20-7 Phenylethane CAS# 100-41-4 2-Propanol CAS# 67-63-0 Ethyl Alcohol CAS# 64-17-5

New Jersey Right to Know

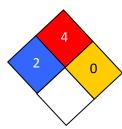
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16. OTHER INFORMATION

HMIS RATING

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

NFPA CODES



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